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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street Strand, London W.C.2

Registered as a Newspaper

3 2 3 4
CXXXVII

JANUARY 31, 1942

Annual Subscription (with
Diary) 25/- Single Copies 9d.

BARBITURIC ACID DERIVATIVES

PROGRESS in the therapeutic field has always been the aim of the Lilly Research Laboratories, and in the case of Barbituric Acid derivatives some notable products have resulted. Judged by criteria of potency, uniformity, stability and purity these products rank high and command the confidence of the medical profession. In keeping with the Lilly Policy, distribution is reserved to the Drug Trade.

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By Government order, Benger's Food, and certain other products, in future must be packed in tins containing 8 oz. or multiples of that quantity. In compliance with this order Benger's Food will be sold in 8-oz., 1-lb. and 2-lb. sizes, when present tin stocks are exhausted. It is important to note, in the list of present and new packs given below, that there is *no increase in price*. Cost to the public and profit ratio to wholesaler and retailer are the same as at present, adjusted in exact proportion to the increase in weight.

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PACKING SIZES
NO INCREASE
IN PRICE**

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PLAIN, MALT, COCOA AND MALT			PLAIN, MALT, COCOA AND MALT		
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No. 0 size 6-oz. tin or composite board container.	1/4	12/10	No. 0 size New Government Standard. 8-oz. tin or composite board container.	1/9	16/10
No. 1 size 12-oz. tin or composite board container.	2/3	21/6	No. 1 size New Government Standard. 16-oz. tin or composite board container.	3/-	28/8
No. 2 size 1½-lb. tin.	4/-	38/6	No. 2 size New Government Standard 2-lb. tin.	5/4	51/4
No. 3 size 3½-lb. tin.	8/6	81/6			
No. 4 size (Hospital) 7-lb. tin.	17/-	163/-			

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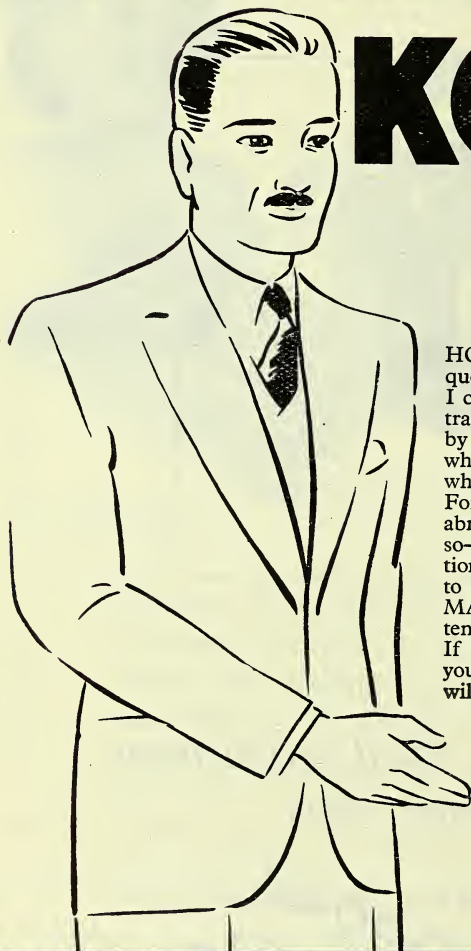
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Says:



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Subject to Purchase Tax at 16½ per cent.

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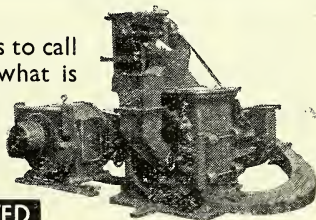
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WAR-TIME MARKET NEWS

summarising war-time opportunities, special notices, new packaging and new products



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summarising war-time opportunities, special notices, new packaging and new products

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BRISTOL, J

'SURE SHIELD'



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Please Note

- 1st. All Orders are forwarded in strict rotation and we are now 5-6 weeks behindhand in delivery.
- 2nd. Due to the position, all additions can only be treated as separate orders

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All our products are Medicinal and not subject to the above order, and as such, are subject to Purchase Tax. Our printers have in hand a range of formula labels to meet the requirements of customers who retail goods from bulk parcels—these will be supplied at a nominal charge.

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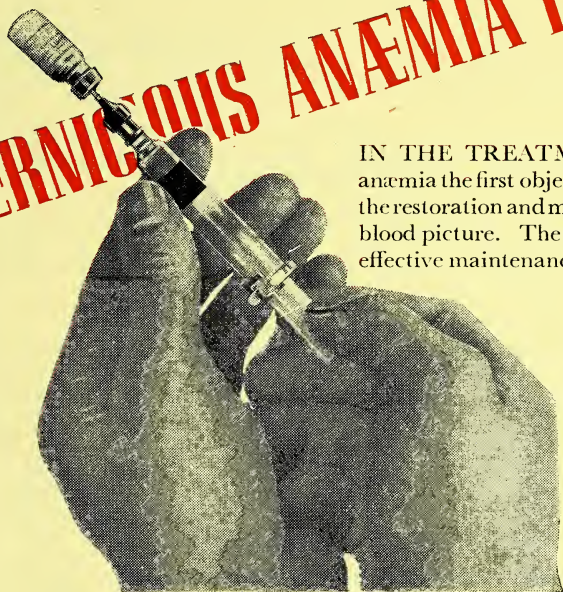
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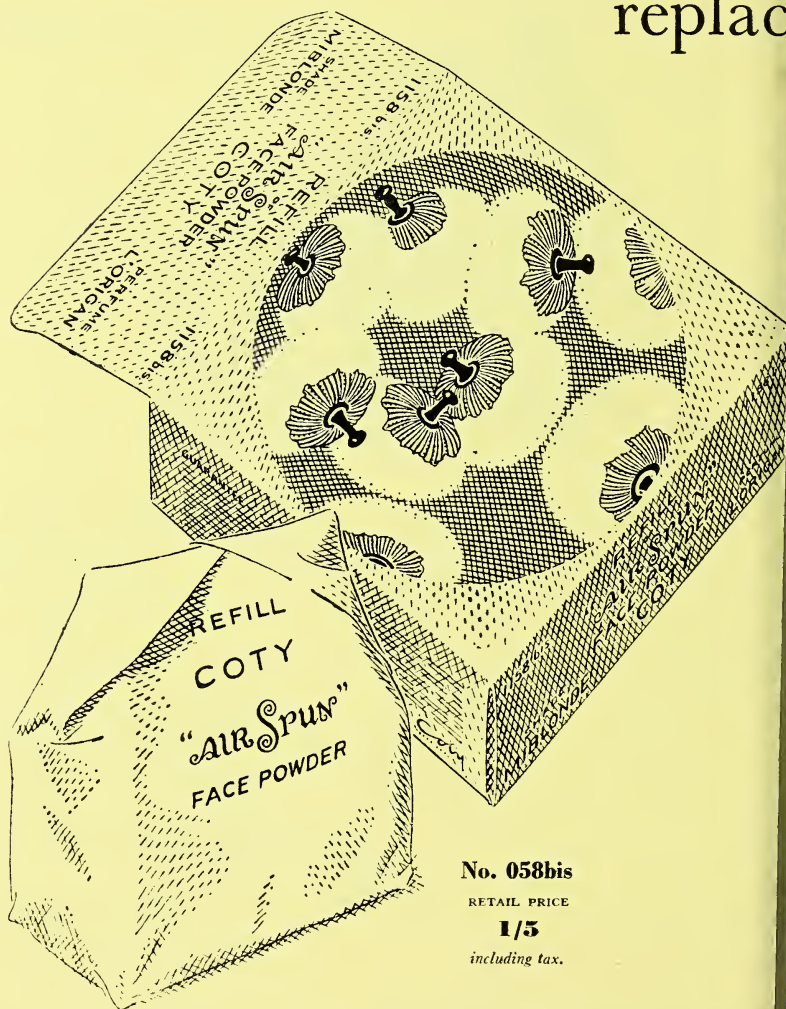
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ANNOUNCEMENT

I M P O R T A N T

New *AIR SPU* Re

replacese

**No. 058bis**

RETAIL PRICE

1/5

including tax.

O U N C E M E N T

Refill Pack (*Series 058bis*) will
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Same quantity, same quality

TO help the national economy, AIR SPUN packaging has been further simplified. The new Refill Pack is a plump envelope of AIR SPUN Powder in a folding carton printed with the famous Powder Puff design. The pack has proved such a saving in board that we can now get more packs from our allowance, and so release increased supplies of AIR SPUN.

NEW RETAIL PRICE

★ Because this new packaging costs less, the retail price is now 1/5 including Purchase Tax. Same quantity—same quality.

★ This new Refill Pack will replace the present wartime Box (*Series 058*) which is discontinued.

★ Orders on hand will therefore be executed with the new Pack pro rata of quota

available for each dealer.

★ Please do not send us fresh orders—this is purely an announcement for your information and guidance.

★ A guarantee and warning on the carton tells your customers to verify, at the moment of purchase, that the inside envelope is properly sealed as it left the Factory.

Number	Net price per dozen.	Purchase Tax per dozen.	Fixed Retail Price includ- ing Tax.
058bis The new AIR SPUN Refill Pack.	9/3	3/1	1/5
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Scents: OCRE ROSÉE, MIBLONDE, GITANE.			

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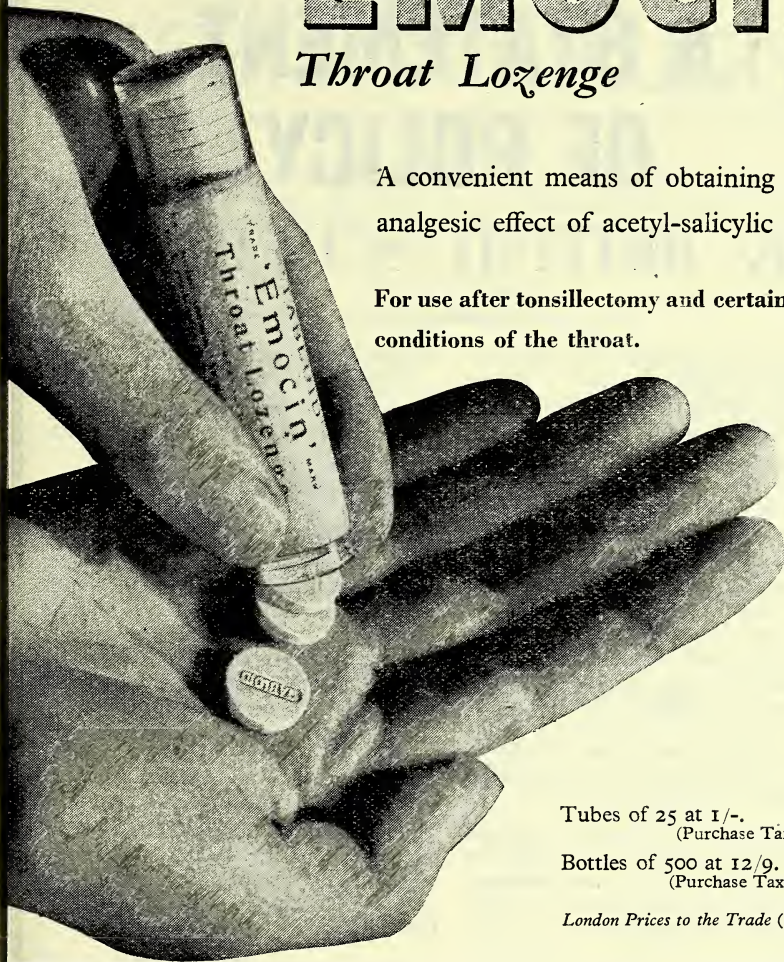
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For use after tonsillectomy and certain inflamed conditions of the throat.



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A STATEMENT OF POLICY

By **BRITISH SCHERING**

SO that there may be no misapprehension about the new British Schering organisation we wish to make the following statement :

In August 1941 a British group acquired from the Board of Trade the whole of the stocks, goodwill, trade marks and patent rights of Schering Ltd.

Far from there being any intention on the part of this group to nurse German interests for revival after the war (as has been insinuated in some quarters) the policy followed effectively blocks any such plan. So long as the word "Schering" is retained and the present trade marks are employed, neither can be used in this country by the Germans after the war.

In order that all German interests in Schering in this country shall be completely eradicated, three separate companies have been formed and are now in active operation :

1. **RESEARCH** (*British Schering Research Laboratories Ltd.*)

2. **MANUFACTURE** (*British Schering Manufacturing Laboratories Ltd.*)

3. **DISTRIBUTION** (*British Schering Ltd.*)

The establishment of these three companies is no mere war-time expedient. It is an early and logical step in a long-term plan of development in the pharmaceutical specialities field. Further—the acquisition of stocks, patent rights and trade marks, together with provision for manufacture in this country, secures the supply of products whose originality, quality and efficiency have never been in question.

On this foundation British Schering are building, with the hope that they may play a useful and honourable part in the progress of the British Pharmaceutical Industry.

BRITISH  **SCHERING**

British Schering Research Laboratories Ltd., Alderley Edge, Cheshire.

British Schering Manufacturing Laboratories Ltd., Pendleton, Lancs.

BRITISH SCHERING LIMITED, 185-190 HIGH HOLBORN, LONDON, W.C.1



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NEWS OF THE WEEK

Standardised Packaging Sought.—At the request of the Government the whole packaging field, so far as pre-packed commodities are concerned, is being explored by a series of trade committees formed under the packaging-industry committee of the British Standards Institution. Fabricators of containers and users in the various trades are formulating proposals restricting the types marketed.

Shellac Open Licence Revoked.—The open general licence permitting importation of shellac (including seedlac and sticklac) from British Empire sources, Palestine and Transjordan, the Free French Colonies, the Belgian Congo and Ruanda-Urundi has been revoked with effect from January 26. From that date separate licences are required, unless the goods were dispatched prior to that date and imported into the United Kingdom before March 26. Applications to import should be made on standard form obtainable from the Import

Licensing Department of the Board of Trade, or offices of Collectors of H.M. Customs and Excise, and sent to the Import Licensing Department.

Export Licensing.—Under the Export of Goods (Control) (No. 4) Order (S.R. & O., 1942, No. 68), which comes into force on February 10, licences will be required to export the following classes of goods to all destinations: Packaging, bottling, filling (including weighing and filling), lining, closing, sealing, capping, wrapping, labelling and casing machinery, and any combination of the above machines; paper bag and envelope and cardboard box and carton making machinery; paper perforating machinery; strapping, baling, nailing and stapling machines; chlorinated diphenyls and preparations thereof. Licences will, in future, be required to export the following: casein glue; glue, gelatin and size, derived from animal or fish; and mixtures consisting wholly or mainly of the foregoing.

Trading with the Enemy.—The Board of Trade announce that they have made a new Order which came into force on January 20, containing 192 additions to the black list of traders in neutral countries with whom it is unlawful to have dealings of any kind. The Order is published by His Majesty's Stationery Office under the title of the Trading with the Enemy (Specified Persons) (Amendment) (No. 1) Order, 1942 (S. R. & O. 1942, No. 15).

Sperm Oil Standard.—The British Standards Institution has issued a British Standard for crude sperm oil (B.S. 997), as one of a series of standards for marine, animal and fish oils. The specification requires that the oil shall be the product obtained from the head of and/or blubber and/or carcase of the sperm whale, and that it shall be free from contamination or admixture with other oils and fats. Limits are prescribed for moisture and dirt, and the iodine value, colour, specific gravity of filtered oil, saponification value, acidity and unsaponifiable matter are established. In appendices, methods for determining these properties and impurities are given. Copies are obtainable from the Institution, at 28 Victoria Street, S.W.1, price 2s. 3d.

Purchase Tax.—The following decisions regarding the liability of certain articles to tax are published as supplementary to those already given in Customs and Excise, Notices No. 78 and No. 78A:— *Class 17.*—**Chargeable.**—Wool crêpe for permanent waving, safety razor-blade hones. *Class 18.*—After discussion with the Soap Makers' and Fat Splitters' Federation, the Commissioners of Customs and Excise have decided to restate the liability position of soap made up for sale as toilet soap, as follows: *Chargeable in all circumstances.*—(1) Hard soap containing 70 per cent. or more of fatty and resin acids; (2) soap in all forms (solid, soft, liquid or paste) described or sold as toilet soap, or put up for sale with any indication on the soap itself or on any packing material or in any form of publicity that such soap is intended primarily for toilet use. *Not chargeable.*—(1) Soap described and sold as household soap; (2) hand soap (in solid, liquid or paste form) which contains abrasives or other special ingredients for the removal of excessive dirt or grease; (3) liquid soap specially prepared for a specific industrial purpose, e.g. as a basis for insecticides or disinfectants or as a cutting medium; (4) soap flakes, soap powders, household ammonias, disinfectant cleansers,

North London Organises Criticism of Report.—A letter sent out to members of the North Metropolitan Branch of the Pharmaceutical Society, and bearing the signatures of the chairman, vice-chairman and secretary, urges every pharmacist, whatever position he occupies, to subject the report of the Committee of Inquiry to careful scrutiny and send back constructive criticisms. It is hoped to hold a general meeting at an early date at which to discuss the letters received.

Leeds Resolution on Employees.—At a meeting of the Leeds Branch of the Pharmaceutical Society on January 21, the following resolution was passed:—"The Leeds and District Branch calls for the immediate regularising of employee representation, recognising that the Association of Pharmaceutical Employees is able to perform the necessary duties in a satisfactory manner, having given ample evidence that it recognises its responsibilities both to employees and pharmacy."

Manchester Discusses Formulas.—A meeting of the Manchester Pharmaceutical Association and branch of the Pharmaceutical Society was held on January 21, the president (Mr. E. Berry, M.Sc.) in the chair. Mr. J. R. Walmsley, Ph.C., F.I.C., gave an address on "The Addenda to the British Pharmacopœia and the new National War Formulary." Mr. Walmsley recounted additions to the B.P. in the four addenda published in recent years, giving particular attention to the vitamin preparations. Many questions were asked in the discussion that followed. Mr. FRANKLIN said that a few years ago the Conference Executive had suggested that practising pharmacists might undertake minor research in their pharmacies. In the light of their experience they might well undertake research to improve the formulas in the new War Formulary. This would be a valuable and practical piece of work and be of use to everybody. Mr. BRINDLE supported this suggestion, and said that these simpler problems could well be taken in hand by pharmacists at their dispensing counters. The bigger problems that required more time could be undertaken in the University and manufacturing laboratories. Mr. BOARDMAN said that in the new War Formulary some of the alternatives used for replacement were themselves in short supply (quassia, oil of aniseed, burnt sugar). On the other hand stocks of gentian root were available and lately

liquorice root had come to hand in fair quantity. A little consideration in nomenclature would have saved the scrapping of many labels, and in the existing paper shortage this would have been desirable. Criticism was made of the constitution of the committee responsible for the compilation of the formulary, and it was urged that retail pharmacy should have had adequate representation on it. The vote of thanks was proposed by Mr. Harry Brindle.

Dispensing Course Criticised.—Councillor R. Hudson, M.P.S., Burnley, expressed surprise at a meeting of the local Education Committee, on January 21, at a proposed dispensing course at the Municipal College—a course which he suggested gave no statutory qualifications. He understood the intention was to give training to youths and girls for the Apothecaries' Hall examination. He thought it better, if there was sufficient demand, to have the College recognised for the Qualifying examination of the Pharmaceutical Society. It was stated by another member of the Committee that the local authority paid travelling expenses of students attending pharmaceutical classes in Manchester. He would like these classes in North-east Lancs to cater for the area from Barnoldswick to Blackburn. The chairman said they were already giving pharmaceutical instruction and hoped to develop it. What was suggested was something new, to benefit students who had not taken full secondary education. This course was intended for girls desiring to act as dispensers to doctors. Another member said one course of training was for a profession and the other training for a job. It would be tragedy if young people took the proposed course thinking it led to pharmaceutical qualification. Another councillor said the training would also cater for assistants in chemists' shops who could not afford the M.P.S. course. It would distinguish between counter hands and those capable of dispensing and would attract those who had no chance of qualifying for M.P.S.

Dublin Rheumatic Institute.—Dublin is to have a permanent medical institute for the treatment of rheumatism; some fifteen distinct forms of the malady will be the subject of special study and treatment. The equipment will include provision for physio-therapy and hydro-therapy. Rheumatism is shown by health insurance statistics to be the main cause of loss of employment among 500,000 manual and clerical workers.

Eire Registrar's Lecture.—A lecture on "John Robert Kane, Apostle of Irish Industries," is to be given to the Old Dublin Society on February 2 by Mr. James J. Kerr, P.C. (registrar, Pharmaceutical Society of Ireland).

Baby Food Shortage in Eire.—A meeting is to take place shortly between manufacturers of baby foods and representatives of the Department of Industry and Commerce, the Department of Supplies, and the Scientific Research Council to discuss supplies of raw material. Production of the various prepared cereal foods, it is stated, is being forced to a standstill through lack of barley and oat supplies.

Irish Society's Calendar.—The calendar for 1942 of the Pharmaceutical Society of Ireland has just been issued. In addition to the details of pharmaceutical events for the year and to the Registers, corrected to December 1, 1941, of pharmaceutical chemists, chemists and druggists, registered druggists, and assistants, the new calendar contains a feature not included last year, namely the examination papers set during the year just concluded. A number of insertions to be made to the Book of Acts and Regulations are included on loose sheets supplied with the calendar.

SAMPLING ROSE-HIP SYRUP



Rose-hip syrup being sampled by workers in a factory in which it is made.

TOPICAL REFLECTIONS

A Medical Broadcast

Your readers owe you thanks for a report (pp. 106-07) of a B.B.C. discussion on a range of medical topics, the more so because, in all probability, most of us lack time to study the contents of the Corporation's Forces programmes. The principal *motif* of the discussion may be summed up as the importance of medical psychology. Obviously a good deal had to be omitted in compressing features of a subject of this nature into a fifteen-minutes' talk beset by the disadvantages of popular exposition. But even after allowing for this limitation, a certain superficiality in treatment is observable. One expects medical men to qualify their statements with precision: your report, though abridged, suggests to me that insufficient attention was given to this aspect of the subject. It may be demonstrable, for instance, that "all the training [in medicine and surgery] is heavily overburdened with learning derived from the study of dead creatures"; but this training has engaged the attention of the General Medical Council for several years past, presumably with some improvement in adaptation of means to ends. Passing over the brief and almost perfunctory glance at the history of medicine given by the speakers, we soon reach the statement: "I can't imagine anyone who's never undergone serious emotional disturbance being able to take up psychological work." One is reminded of the eighteenth-century quip, "Who drives fat oxen should himself be fat": if we change the last two words to "have been fat," the old sentence seems applicable to the present dictum. The fact is that with growing experience the average medical practitioner, if he has the root of the matter in him, becomes somewhat of a psychologist, and can readily interpret in scientific terms most or all of the rigmarole that certain patients put before him in consultation. Why should "serious emotional disturbance" in his own personality be a necessary element of qualification for the exercise of this faculty?

For the Gallery

From this point onwards the conversation emphasised the old distinction between treating a disease and treating a patient. A curious remark on panel practice followed a statement of the difficulty that medical men want a large number of panel patients but, having it, complain of overwork:

"The only way . . . is to be so efficient in *preventing* illness that they have to deal with that number of patients small enough to be both interesting and reasonable." Why interesting? Few people in any vocation can ordain that all their work shall be of this nature. In the concluding paragraphs of the discussion the hope was expressed that one day the "real" function of medicine will be to prevent disease. If that stage in human progress is reached, the demand for medical practitioners is likely to sink to near vanishing point. (I do not know what will then happen to pharmacists.) It appears that in the view of the speakers the functions of the medical psychologist are in some way linked with the provision of "a decent minimum standard of living." Is not this a case of playing to the gallery? On one point I cordially endorse the opinion of "M.P." that it is "quite possible to be a healthy genius." That, however, opens too large a vista for adequate emphasis on this occasion. Your excellent suggestion (p. 115) of broadcasts on pharmacy may sooner or later bear fruit.

Clinical Observation

In contrast to this B.B.C. conversation are two articles devoted respectively to the administration of liquid paraffin (p. 116) and to the aetiology of chilblains (p. 119). About thirty years ago I knew a patient who ordered liquid paraffin by the gallon, and apparently thrived on it. At that time the routine prescribing of the substance had not been customary long enough for its drawbacks to be appreciated. That those drawbacks are substantial and may be serious is now evident. The lecture by Sir Thomas Lewis, one of our most brilliant clinicians, on the injurious effects of cold on the skin and underlying tissues also calls for careful reading by pharmacists who wish to keep in touch with medical thought. Though the lecturer has not suggested a universal cure for this trying condition, he has made clear the essential factors in its causation, thus indicating to his hearers the best that can be done by way of relief. In view of the observation that a person who has once suffered from chilblains becomes more prone to contract them a second time, one may hope it is not necessary for a prescriber who treats chilblains to have had previous personal experience of them.

Xrayser

LEGAL REPORTS

Cocktail Lemon Juice.—At Rugby, recently, G. W. Armour, trading as Armour's Products, Sutton Court Road, Chiswick, London, was summoned for supplying food bearing a false label, namely, Cocktail lemon juice. According to the prosecution, the label on the bottle stated that the lemon juice contained vitamin C, but the analysis proved that there was none present. For the defence it was pleaded that Messrs. Armour's Products purchased the lemon juice from a qualified chemist and then bottled it. They had been prosecuted seven or eight times already for exactly the same offence and had paid in costs and fines nearly £200. A fine of £20 was imposed.

Egg Substitute.—At Leeds, recently, Mrs. Olga Biro, trading as G. J. Biro, Beckenham, Kent, was fined £20 in connexion with the sale of liquid egg substitute. It was stated by the prosecution that the product was found on analysis to consist of 96 per cent. water, 3 per cent. gum, and 1 per cent. carbonate of soda, with a faint trace of dye. One label said "Made from vegetable product." Mr. C. H. Manley, Leeds City analyst, said he was amazed that the Ministry of Food granted licences to "some of the worst products on the market." That was the view also, he added, of the town clerk of Leeds, who had written to the Ministry.

COMPANY NEWS

B. H. CHEMICALS, LTD. (P.C.).—Capital £1,000. Objects: To carry on business as manufacturers of and dealers in chemicals, soaps, detergents, etc. First directors to be appointed. Solicitor: Mrs. V. M. Prockter, 8 Stone Buildings, Lincoln's Inn, London, W.C.2.

PECKHAM CHEMICAL CO., LTD. (P.C.).—Capital £100. Objects: To acquire the business of a manufacturing chemist carried on by M. O'Donnell, Peckham Rye. Cecil R. Jones, M.P.S., 46 Courtway, Colindale, London, N.W.9, and May O'Donnell, 29 Elms Road, Clapham, London, S.W.4, directors. R.O.: 184 Peckham Rye, London, S.E.22.

BRISTLEHAIR TRADING CO., LTD. (P.C.).—Capital £100. Objects: To carry on business as importers, exporters, and manufacturers of and dealers in horsehair and other hair and substitutes, and of bristles

for tooth, hair, shaving, and other brushes, etc. First directors to be appointed. Solicitor: Barnett Janner, 200-201 High Holborn, London, W.C.1.

EVERETT DEVELOPMENTS, LTD. (P.C.).—Capital £1,000. Objects: To acquire patents and inventions, and to carry on business as manufacturers of and dealers in dental and surgical appliances. Samuel J. Everett, Robert H. Everett and Frederick C. Everett (addresses not stated), directors. Solicitors: Joynson-Hicks & Co., Lennox House, Norfolk Street, London, W.C.2.

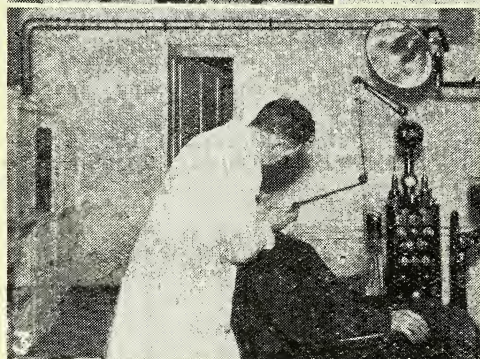
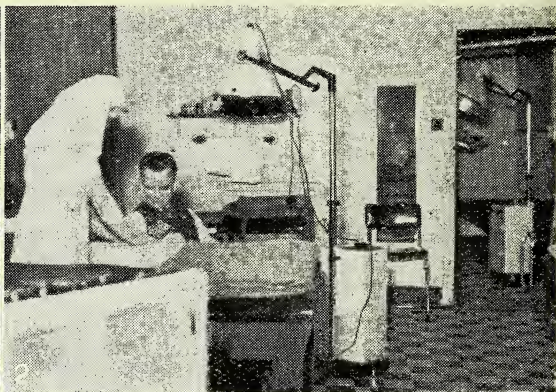
R. WESTLAND, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a chemist and druggist carried on as "R. Westland" by Winifride L. Westland and Anthony G. B. Thomas (administrators of the estate of the late Robert Westland). Mrs. Winifride L. Westland, 58 Fairfield Terrace, Newton Abbot, director. R.O.: 34 London Road, Tooting Junction, London, S.W.17.

F. J. NORTH (RETTFORD), LTD. (P.C.).—Capital £4,000. Objects: To acquire the business of a chemist and druggist carried on at Retford by Henri A. J. Merrill, George S. and Robert A. Daykin. George S. Daykin, M.P.S., and Robert A. Daykin, both of 9 Nether Edge Road, Sheffield; Henri A. J. Merrill, Hillcrest, Stubbin Edge, Ashover, Derby; and Sidney H. Clay, directors. R.O.: 29 Market Place, Retford, Nottingham.

MIDLAND BANK, LTD.—Net profit for 1941 amounted to £1,969,288, to which is added £620,083 brought forward. After deducting appropriations for war damage and contingencies, the sum of £1,233,026 is left, from which directors recommend a further dividend (for half-year ended December 31, 1941) at 8 per cent. actual, less income tax, £606,345; leaving £626,681 to be carried forward.

BANKRUPTCY ADJUDICATION.—John Patrick Brennan, 20 Westholme Gardens, Ruislip, Middlesex, and lately at B.B. Technical Laboratories, Bideford Road, Perivale, Middlesex, chemist.

BANKRUPTCY.—George Borton Purser, dispenser, 23 Cavendish Street, Cherry Orchard, Worcester, lately at 93 Queen Street, Newton Abbot. Public examination at The Guildhall, Worcester, at 2 p.m. on February 10, 1942.



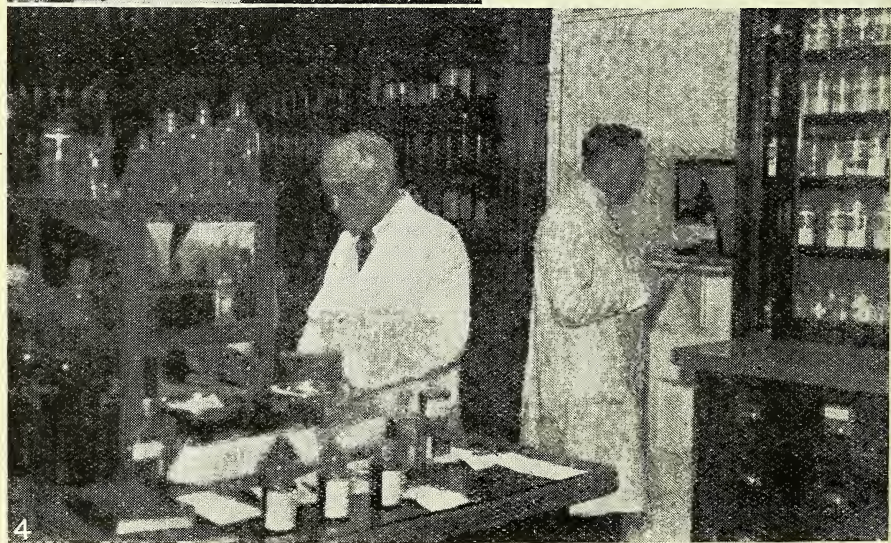
AT WORK IN THE GUINNESS DISPENSARY

1. Applying dressings to a patient in the surgery.

2. Massage in progress in the physio-therapy section.

3. Automatic drill in use in the dental department, in which three patients at a time can be treated.

4. The pharmacy. In the foreground is the principal pharmacist (Mr. P. J. Rooney). The second pharmacist (Mr. W. V. Bowie) is taking case cards from workers.



THE GUINNESS DISPENSARY IN DUBLIN

FEW industrial concerns in Great Britain or Ireland can boast a more complete and efficient medical and pharmaceutical service for employees and their families than the famous St. James's Gate brewery of Arthur Guinness, Son & Co., Ltd., Dublin. The Guinness brewery—the world's largest—is a pioneer in welfare and social services. Founded near the banks of the River Liffey in 1759, and covering some four acres of ground in 1760, the brewery today extends over sixty acres of land, and is almost a town in itself, through which run over eight miles of narrow-gauge railways. The employees number 3,300.

The Dispensary and its Staff

For many years past a well-equipped medical and pharmaceutical department has been a notable feature of the brewery town. The department is housed in a special centrally-placed red-brick building, which is known to the workers as "the dispensary." It is controlled and directed by a foremost Dublin physician (Sir John Lumsden, K.B.E., M.D.), who is in attendance daily. There are also two assistant medical officers, one of whom resides on the premises and can be reached at all times of the day or night. In association with the medical staff are two dental surgeons, two pharmacists, two nurses, a welfare superintendent, a masseuse, four clerks, and several porters and female attendants. The excellence of arrangement and organisation of the Guinness dispensary is at once noted by a visitor. On one side of the main corridor is a white-tiled medical consulting room, with spacious modernly-equipped surgery adjoining. On the opposite side of

the corridor is a fine pharmacy—a model of what an institutional pharmacy should be. Here the two white-coated pharmacists are kept busy from 10 a.m. each week-day continuously dispensing the scripts pouring

in from the three medical officers. Some 45,000 patients attend the dispensary in the course of a year, and the number of prescriptions compounded annually in the pharmacy is around 118,000. In addition to the medical, surgical, dental, and pharmaceutical departments, the dispensary houses a physio-therapy clinic, where massage, radiant heat, faradism, diathermy, high-frequency, ultra-violet and infra-red ray therapy are given under medical supervision. When hospital or convalescent home treatment is necessary, beds are obtained in the City hospitals, the maintenance charges being paid by the brewery. Arrange-

ments are also made for ambulance transport to hospital, electro-cardiographic and pathological reports, radiological examination, deep x-ray and radium treatments, and the supply of orthopaedic and other appliances. In addition the brewery company maintains eight beds in sanatoria in the country for patients suffering from tuberculosis.

Welfare Arrangements

All the dispensary services are provided entirely at the expense of the company, and extend not only to actual employees but also to their wives, children, and dependants, and to widows and pensioners of the Brewery. One of the duties of the Welfare Superintendent is to keep in contact with the widows and orphans of deceased



The chief medical officer at the Guinness dispensary (Sir John Lumsden) speaking to a mother who has brought her baby for treatment.

employees and report to the Chief Medical Officer on their condition and needs. When a married man falls sick the company pays 75 per cent. of his wages; to a single man 50 per cent. Full pay is given in absence due to infectious disease, or to an accident not caused by any fault of the worker.

The Pharmacy

In the pharmacy itself, the stock cases lining the walls are of polished mahogany, with roller shutters that close down over the drug and poison stocks when the pharmacy is closed. All the mixtures, liniments, lotions, etc., are made up within the pharmacy to standing formulas, while most of well-known proprietary preparations are stocked. Prior to the war drugs were purchased in large quantity under contract. Stocktaking is carried out twice yearly, and there is a daily delivery of supplies. Between them the two pharmacists employed dispense daily an average of 300 to 400 scripts, the number including prescriptions from outside doctors the dispensing of which has been authorised by the chief medical officer. When an employee presents himself for the first time at the dispensary a card is issued in his name bearing his number on the brewery

register. On this card the medical officer who examines the worker records his diagnosis and prescription. The worker then passes the card to the pharmacy, from which his medicine is issued. The cards are later passed by the pharmacy to the clerical department for filing. In this way a complete health record is kept of each employee, in some cases extending over half a century. They show all the illnesses from which the worker suffered, and the various medicines or treatments given. Nursing mothers are given Guinness's stout for three months at a time, and this is issued to them from the pharmacy as a medicine. The principal pharmacist is Mr. Patrick J. Rooney, M.P.S. (Great Britain), who qualified in 1902 and was appointed to the Guinness pharmacy in 1910. Mr. Rooney's co-worker is Mr. William Vernon Bowie, L.P.S.I., who qualified in 1934. Mr. Bowie acted as locum at the brewery pharmacy in 1934, and subsequently was appointed to the staff in 1938. Among other duties, the pharmacists are responsible for keeping the first-aid dressing stations situated throughout the extensive brewery area fully equipped with dressings and other necessities.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

THE monthly meeting of the Northern Ireland Pharmaceutical Council was held at 73 University Street, Belfast, on January 16, Mr. J. Glendinning (president) in the chair. Also present were Messrs. H. F. Moore, J. Trevor Nicholl, J. Donaghy, C. Abernethy, J. McDowell, J. W. Gray, J.P., J. McGregor, and Walter C. Tate. Miss I. Roulston (assistant secretary) was in attendance, in the absence of the secretary, Mr. D. L. Kirkpatrick.

The following examination reports for December, 1941, were presented:—

PHARMACY (Examiner, Mr. Thomas Wilson).—The pass of referred candidates, that is candidates who were permitted to re-enter for one subject only, was very satisfactory. Having only one subject to tackle, most of them had appreciably higher marks than in their previous appearance at the examination. It may be said that this is only to be expected, yet it does not always happen. If a candidate has not been working faithfully during the interval it may well be that his marks show a decrease instead of an increase. The forensic questions presented practically no difficulty to any candidate,

nevertheless several came short of pass marks in this section of the subject. In several cases the weakness just mentioned was corrected when the candidate was examined orally. With regard to the written papers in pharmacy, the questions covered a wide range. This was done of set intention. The optional questions given allowed candidates a certain measure of choice, and this choice was evenly distributed over the whole of the optional questions. Not one of these questions was boycotted or left alone because of strangeness or unusual difficulty. This reflects a certain amount of correspondence between the teaching and the requirements of the syllabus. The practical examination presented no difficulty to those who knew their work, although several candidates were obviously unable to complete the work set. The balance of the practical papers is most carefully considered, while with regard to weight it is estimated that the whole of the five items can be completed with ease well within the time allowed. The practical examination is a test not only of the accuracy, but also of the dexterity and skill of the candidates, and those who show these qualities find the time allowed quite sufficient. One factor which operates in favour of most of the candidates is that the

examination takes place in a familiar environment. On the whole the standard of the work performed by the candidates is gradually rising, and students now realise better the requirements of the examination which the Council expects them to satisfy.

PHARMACOGNOSY (Examiner, Mr. Charles W. Young).—The marks of the candidates yield an average of 45 per cent. in both the theory and practical examinations, whilst the average pass is 42 per cent. The successful candidates are consistently good in both papers—the other candidates consistently weak.

CHEMISTRY (Examiner, Dr. Charles J. Still).—In Part I approximately 59 per cent. passed. On the whole the answers in theory were disappointing, and a few of the candidates were very weak. There were no papers of outstanding merit. The papers of the successful candidates varied from fairly good to moderate. In the practical work the qualitative exercise was not so well done as the quantitative. About 59 per cent. passed in Part II. A few of the successful candidates scored high marks in the theory paper. The practical work was fairly well done. Candidates would have done well to spend a few minutes on planning their work, so that hydrolysis of the ester might proceed whilst the other exercises were being conducted.

BOTANY (Examiner, Professor John McLean Thompson).—This examination showed a creditable standard, and, in my opinion, reflects sound teaching. I should like, if this is proper, that the teachers responsible should know that I appreciate their work, and the attainment of their pupils in these difficult days.

PHYSICS (Examiner, Professor W. B. Morton).—The marking at this examination was above the average, and, as usual, better on the practical than on the theory. There were again marked gaps in the subjects studied, certain questions being left almost completely unanswered. It was discouraging to find vagueness in the ideas about such fundamental things as centre of gravity and the definitions of units. In the latter case the mistakes made it obvious that these definitions had been merely memorised, without real understanding of principles. This, of course, is a difficulty in all testing of knowledge by examination, in any subject that is not purely descriptive.

The reports were received on the motion of Mr. TATE, seconded by Mr. DONAGHY, and at Mr. TATE's suggestion it was decided to send Mr. Wilson a letter of appreciation for his admirable report.

Correspondence

Mr. T. Wilson (pharmacy examiner) wrote thanking the Council for their interest and help during his period of service.—Miss ROULSTON intimated that seasonal greetings had been received from the Pharmaceutical Societies of Great Britain and Ireland.

Mr. Kirkpatrick's Illness

The PRESIDENT mentioned that their secretary (Mr. D. L. Kirkpatrick) was ill with influenza, and that that was the first meeting he had missed in seventeen years—a splendid record. At his suggestion the Council decided to send Mr. Kirkpatrick a letter of sympathy and good wishes for his recovery.

New Licentiates

In presenting the new licentiates with their certificates the PRESIDENT told them that business life was what one made of it, and if they put their hearts into their work they would find pharmacy one of the most absorbing of professions. From time to time one heard great praise of doctors and nurses for the spirit of self-sacrifice they showed, but in his opinion the men and women of their own profession were just as much entitled to commendation for the willing spirit with which they responded to calls for prescriptions at any hour of the day and night.

Now, as licentiates they had the cares of examinations off their chests, and it was up to them to buckle into their work and prove themselves responsible and good citizens, as he was sure they would. He urged them to cultivate the friendship of their fellow-pharmacists, and to join up with the local pharmacists' organisation wherever possible, because if they were all united they could fight their corner better. (Hear, hear.)

MR. H. F. MOORE (vice-president) said the licentiates were now on the threshold of a new career with a qualification which would carry them practically anywhere. Some young men would tell them that pharmacy was not worth bothering about, but he cited against that the case of a young Magherafelt apprentice, now a dispenser in the Royal Navy, who had written a brilliant treatise on his work and had received an important appointment abroad.

MR. WALTER C. TATE also wished the licentiates luck and asked them never to forget that they were reaping what those who had gone before in that Society had sown.

Miss Elizabeth Gertrude Crawford, White-abbey Sanatorium, was elected a member of the Society.

THE CONTROLLER OF SALVAGE says "One ton of waste paper makes seventeen cwt. of new material for munitions."

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Edinburgh Examination Results

THE results of the examinations in Scotland in January 1942 were:—

Examination	Entered	Absent	Failed	Referred (one subject)	Passed
INTERMEDIATE:					
(a) Whole examination	9	0	5	2	2
(b) Referred subject ..	14	1	—	2	11
CHEMIST AND DRUGGIST QUALIFYING:					
(a) Whole examination	30	1	14	5	10
(b) Referred subject ..	33	0	—	5	28

SUMMARY OF REJECTED CANDIDATES

Subject	Entered	Absent	Referred	Passed
Biology (botany and zoology)	11	0	2	3
Botany (botany section only)	14	0	2	4
Chemistry	12	0	1	4
Physics	15	1	1	5
Pharmacognosy ..	31	1	1	13
Pharmaceutics ..	49	1	3	14
Physiology	30	1	1	7
Pharmaceutical chemistry	40	1	5	12
Forensic pharmacy ..	32	1	0	5

The following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination:—

Bain, J., Edinburgh
Barlow, A., Mold
Black, N. B., York
Bloom, M., Leeds
Carver, A., Southport
Clark, H., Liverpool
Clark, P. F., Preston
Cohen, M., Manchester

Costello, W. C., Liverpool
Craine, J. N., Chester
Crann, L., Leeds
Culshaw, B., Preston
Davison, S. N. C., Newcastle-on-Tyne
Derbyshire, A. T., St. Helens
Goldman, C., Sunderland
Haynes, T. E., Darlington
Hulse, J. N., Liverpool
Hunt, R., Leeds
Jeffrey, A., Glasgow
Johnstone, D., Glasgow
Jones, A. J., Workington
Kinloch, A. S., Glasgow
Laws, L. W., S. Shields
Lofthouse, A. F., Edinburgh
MacCallaugh, Gladys C. J., Doncaster
Macdonald, Dorothea M., Inverness
Mackay, R. F., Glasgow
Norman, J. A., Liverpool
Pickles, J. C., Harrogate
Rawlings, K. G., Doncaster
Riley, G. B., Upton
Roberts, A. L., Sunderland
Scott, D. G., Sunderland
Shawn, J., Leeds
Shepherd, W. I., Sutton-in-Ashfield
Short, G. G., Bangor
Wheldon, G., Philadelphia
Wylam, F. A., W. Hartlepool

In the Pharmaceutical Chemist Qualifying examination ten passed, one failed, and three were absent. The following were the successful candidates:—

Armitage, E., Halifax
Burton, J. S., Leicester
Higson, R., Manchester
Howden, T. E., Selby
Hudson, T. A., Leeds
Kinniburgh, H. N., F., Glasgow
Laird, J. A. E., Torphins
Leach, Cynthia M. de B., Edinburgh
Whiteside, H. P., Leeds
Wilkinson, G. R., York

WEIGHING MACHINE PROVIDES MERCHANT NAVY COMFORTS.—Lewis & Burrows, Ltd., chemists, 146 Holborn, London, E.C.1, have sent a cheque for £3 2s. 10d., the proceeds from collecting boxes kept on the firm's weighing machines during the month of December 1941, to the Merchant Navy Comforts Service, 62 Heath Street, London, N.W.3.

THREE TEES-SIDE RESOLUTIONS

A MEETING of the Tees-side Branch of the Pharmaceutical Society was held at Middlesbrough on January 21, Mr. W. R. Brackenbury presiding. The speaker was Mr. Hirst (a member of Council). Owing to unavoidable delay in his arrival, he had to limit his talk to half an hour, leaving no time for questions. Mr. Hirst said that on account of the Society's decreased income the Council was faced with three alternatives: To discontinue the "Journal," which was unthinkable; to discontinue the work of the pharmacological laboratories, which was unlikely; and to increase the retention fee, and this he could see coming. The speaker stressed the claims of the Benevolent Fund and the Society's War Aid Fund.

Discussion

The meeting continued after Mr. Hirst's departure. MR. THEWLIS moved that the Society be asked to take some action in regard to the extended sale of medicines at this time, despite the restriction of supplies and businesses.—MR. J. C. THOMPSON said that nationally advertised proprietaries were being hawked from shop to shop.—MR. BRACKENBURY said that while preparations like liquid paraffin were in short supply, grocers, etc., were still able to supply at competitive prices.—MR. CROFT suggested that local N.H.I. committees should protest that, while certain specific medicaments are in short supply for N.H.I. dispensing, sales are being pushed or extended by other traders.—THE SECRETARY (Mr. R. MacDonald Murray) suggested that if this matter of supplies was regarded from a purely trade angle, protestations would be futile, and he said that the method adopted by the Society's Council of regarding this issue from a priority angle seemed the better approach.

MR. PHILPOTTS said that less and less information seemed to be given in the "Journal" regarding the activities of the Council and its members in their individual voting.

MR. W. A. THOMPSON suggested that in connexion with recent legislation there must have been intimidation from some quarter, and called for more information.

MR. RICHARDSON stated that, while the military authorities to some extent paid heed to the Pharmaceutical Society, industrial control boards to whom certain classes

of pharmacists were referred had no knowledge of it.

MR. D'ARCY BRAY referred to pharmacists in the Forces, and suggested the Society should continue to press for better recognition.

Other speakers were Messrs. A. W. HARRISON, T. M. MOFFITT, LANGMAN, HOLLINGS, and GILLESPIE.

Branch Resolutions

The following resolutions were adopted for submission to the Branch Representatives' meeting in May:—

That, in preparation for post-war reconstruction, and the repeal of recent legislation, the Society's Council be asked to set up a real public-relations department for the express purpose of directing public opinion as to the advisability of securing educational control in the distribution of medicines.

That this Branch regards with doubt the statement that pharmacists in the R.A.M.C. have equal chances of promotion with others, and suggests that the Pharmaceutical Society should make inquiries as to how many pharmacists hold a rank above that of sergeant-dispenser, how many posts are held by pharmacists as Staff-Sergeants, Q.-M. Sergeants, and Sergeant Majors, and how many commissioned ranks are held by pharmacists as Lieutenant-Quartermaster or higher rank. This Branch further suggests that the Pharmaceutical Society should again press for commissioned rank for pharmacists serving as dispensers in H.M. Forces, by virtue of the fact that they are trained professional men before taking up their duties as dispensers and that such previous training is already recognised in giving commissioned rank to medical men and dentists.

That the Pharmaceutical Society, the N.P.U., the Association of Pharmaceutical Employees, and all Pharmaceutical Committees, protest against any firm under contract with the Ministry of Health issuing, in connexion with dispensing, any advertisement which, for gain, engenders in the public mind a fear of inaccurate dispensing.

GLASGOW BRANCH, PHARMACEUTICAL SOCIETY.—A meeting will be held at Highlanders' Institute, 27 Elmbank Street, at 7.30 p.m. on February 4. Mr. Colin Campbell will speak on "Solving the Present Staffing Difficulties."

IN THE AGGREGATE

One cwt. of "waste" each month from the 15,000 chemists' shops would be equivalent to 7,650 tons of new material for munitions in 1942.

WAR PRODUCTION IN INDIA

THE following is taken from a Press note received from the Government of India. Two hundred and ninety-two drugs and many other items of medical supplies formerly imported are now being manufactured by Indian drug manufacturers or Government medical-depôt factories. All these drugs have been transferred to the indigenous list. Twenty-eight drugs are being produced in sufficient quantities for export.

Cod Liver Oil Substitute

An efficient substitute for cod liver oil is now made on an extensive scale in India from the liver of sharks caught in Indian waters. The Government medical stores department alone has purchased over 8,000 gallons of this oil. One of the leading woollen mills in India has agreed to supply a certain quantity of *adepts lanae* and has, for this purpose, erected special plant for the recovery of wool-grease. Another firm which manufactures chemicals is increasing its output of anæsthetic ether to 10,000 lb. per month. A sample of dried blood plasma has been examined by the Medical Stores Supply Committee, which is considering the question of its manufacture in India. The production of emetine hydrochloride required for the treatment of amœbic dysentery is closely associated with the growth of *ipecacuanha*. This has also been proved to grow well in Mungpoo, Bengal, and the question of encouraging its cultivation in India is under consideration. Vitamin D has for the first time been made in India at the Indian Institute of Science. Attempts are being made to produce a complex chlorine compound hitherto imported.

Vitamin C Tablets

Troops in the field deprived of fresh vegetables or fruit develop scurvy. To prevent this disease, tablets of vitamin C are made up and India's most concentrated vitamin C is "amla." Amla berries are collected in the Nilgris (under the supervision of the Director, Nutrition Laboratories, Coonoor), dried and made into tablets of suitable size. Chloroform manufactured by a Bengal firm has been tested and found satisfactory. A sample of atropine sulphate made by a firm in Kashmir has been tested and found to be satisfactory, and a trial order has been placed with the firm. Sodium citrate is now being manufactured in small

quantities by a firm in the Punjab from lemon grown locally. The manufacture of thiodiphenylamine, a new and important anthelmintic drug for veterinary use, has now been started in India.

Laboratory Chemicals

Acids and other reagents of analytical purity are being extensively manufactured in India. Certain stains used for bacteriological work such as Congo red, eosin, methyl violet 6-B, etc., have been prepared from imported commercial dyes and are being purchased for the Medical Stores Department. Peptone, sodium tauroglycocholate and other reagents necessary for the bacteriological work have been produced in the country for the first time. A small-scale plant for the production of boric acid has been started in order to utilise the borax brought into India from Tibet. The extraction of alkaloids has been increased. Emetine hydrochloride and atropine sulphate are being manufactured from Indian-grown raw materials. Caffeine is now being made from tea waste on a large scale. A firm is producing large quantities of chloral hydrate and trichloroacetic acid.

Distillation of essential oils has increased since the outbreak of the war and one firm has specialised in the manufacture of essential oils from indigenous raw materials such as lavender oil, lemon oil, etc.

Surgical Instruments

As regards surgical instruments and appliances and scientific apparatus, considerable headway has already been made by Indian firms which deal in these articles. A striking instance is that of a firm in Calcutta which is now engaged in manufacturing Haldane's oxygen outfits, field pattern. Rubber goods, such as waterproof sheeting, hot-water bottles, air cushions of good quality, are now obtainable in India. Glass of many varieties and sufficiently pure chemically to be used as ampoules for biological products and in various designs for laboratory work is manufactured. There are two or three important glass manufacturers in Calcutta who make thermometers and glass-stoppered bottles.

A new factory for the manufacture of earthenware articles has been established, and the medical stores department has obtained large quantities of earthenware articles for hospital equipment from this source.

TRADE NOTES

Chemists' Sundries in the West Riding Area.—Stanning Proprietaries, Yorkshire Penny Bank Chambers, James Street, Harrogate, offer advantageous terms for surgical dressings, chemists' sundries and packed pharmaceuticals.

Increased Sanitary Towel Prices.—Johnson & Johnson (Great Britain), Ltd., Slough, give details elsewhere in this issue of approved price revisions that have been in operation since January 15.

Cross & Max, Ltd.—Owing to a displaced type, the address of the company was wrongly given in an advertisement in last week's issue of the *C. & D.* The correct address is 17 Bishop's Court, London, E.C.4.

Not Controlled.—The makers draw attention to the fact that Dr. Jenner's absorbent lozenges are not controlled under the Sugar Confectionery Order. Slip labels bearing the formula are available from Savory & Moore, Ltd., Tottenham, London, N.15.

Orders for MacLeans' Products.—An appeal is made to pharmacists by Macleans, Ltd., Great West Road, Brentford, Middlesex, to order their requirements of all Macleans' products at the same time, and to order sufficient quantities of each to cover probable sales for two to three months.

Coty's War-time Pack.—Coty (England), Ltd., 41 High Street, Leighton Buzzard, Beds, illustrate elsewhere in this issue the new refill package for their Air Spun face powder. This takes the form of an envelope of powder enclosed in a carton. Details are also given of the new retail price (including purchase tax).

Izal.—In the article on "Antiseptics" (*C. & D.*, November 29, p. 278), this product was incorrectly referred to as a soap emulsion of the cresol class. The makers advise us that Izal is an emulsion of certain higher-boiling phenol homologues extracted from oils which do not occur in ordinary creosote.

C. & D. Diary and Year-Book.—Readers are asked to make the following corrections to the Trade Directory: p. 149, FIELD, C. W., Ltd.: Insert "97" in first column. FIELD & CO. (AROMATICS), LTD.: Delete "97" from first column. Insert new address as in "Business Changes" (p. 142). FREEMAN, JOHN, & CO., LTD.: Delete "Chesham 6489" from column of telephone numbers and insert "Chesham 648-49." p. 151,

INGRAM, J. G., & SON, LTD.: Delete "301" from first column. p. 156, STEVENSON & HOWELL, LTD.: Delete entry and insert "STEVENSON & HOWELL, LTD., Southwark Street, London, S.E.1; telephone: Waterloo 4833 (8 lines); telegrams: Distiller, Telew, London."

Increased Demand for Razor Blades.—It is learned from the makers of Wardonia razors and blades (Thomas Ward & Sons, Ltd., Sheffield) that these are in greater demand than ever owing to the war, and proving more and more popular with the troops at home and abroad. The standard of quality is being rigidly maintained.

Powdered Gum Tragacanth.—Freudentheil, Smith & Co., 16 Philpot Lane, London, E.C.3, who specialise in high viscosity B.P. tragacanth powders, have recently received fresh importations, and can promise early delivery against orders now placed. The powders are standardised for colour and strength, and can therefore always be repeated.

Saccharin Tablets.—Arthur H. Cox & Co., Ltd., Brighton, remind chemists that after January 31 all packs containing saccharin tablets must bear certain wording regarding the contents. Messrs. Cox offer to supply their customers with appropriate labels for envelopes containing 100 tablets on being informed how many packs chemists have in stock that require such a label.

Medicated Confectionery.—On another page of this issue Thomas Guest & Co., Ltd., Carruthers Street, Ancoats, Manchester, 4, point out among other matters of interest that all their confectionery is outside the recent control orders, that special labels are being printed for use where the goods are sold from bulk, and that everything possible is being done to meet customers' requirements.

Proprietary Articles Trade Association

Additions to Protected List.—*Bio-Colloids, Ltd.*, S.D.2, for treatment of skin and tissue, 2s. 3d., 18s. doz., tax 3s. doz., inclusive retail price 2s. 6d.; 4s. 6d., 36s. doz., tax 6s. doz., i.r.p. 5s.; 8s. 1d., 65s. doz., tax 11s. doz., i.r.p. 9s.; 14s. 5d., 115s. doz., tax 19s. doz., i.r.p. 16s.

H. W. Carter & Co., Ltd., Ribena black currant syrup, 12½-oz., 2s. 3d., 20s. 3d.

doz., Carter's rose-hip syrup, 6-oz., 1s. 9d., 15s. 9d. doz.

Riddell Products, Ltd., Riddobron, 8s. 8d., 78s. doz., tax 13s. doz., i.r.p. 9s. 9d.; Asthmosana, 8s. 8d., 78s. doz., tax 13s. doz., i.r.p. 9s. 9d.; Spasmopurin suppositories, box of twelve, 8s. 8d., 78s. doz., tax 13s. doz., i.r.p. 9s. 9d.; Jerrofan, 13s. 1d., 117s. 9d. doz., tax 18s. doz., i.r.p. 14s. 7d.; Asthmasan, 7s. 1d., 63s. 9d. doz., tax 9s. doz., i.r.p. 7s. 10d.; Menthol Turiopin oil, 9s. 2d., 82s. 6d. doz., tax 14s. doz., i.r.p. 10s. 4d.; inhalers, prices on application; Riddosan, 1-oz., 5s. 6d., 49s. 6d. doz., tax 8s. doz., i.r.p. 6s. 2d.; Rheumasan ointment, 4s. 1d., 36s. 9d. doz., tax 6s. doz., i.r.p. 4s. 7d.

Alterations.—*Natural Chemicals, Ltd.* (distributors: *Beechams Pills, Ltd.*), prices in Northern Ireland and Eire, as from February 1: Northern Ireland: Phyllosan tablets, small, 25s. 5d. doz., tax 4s. 2½d. doz., i.r.p. 3s. 3d.; medium, 41s. 7d. doz.,

tax 6s. 11½d. doz., i.r.p. 5s. 4d.; large, 160s. doz., tax 26s. 8d. doz., i.r.p. 20s., subject to usual quantity terms. Agents in Northern Ireland: Thomas McMullan & Co., Ltd. Eire: Distributors: Proprietaries (Eire), Ltd. Prices: Phyllosan tablets, small, 3s. 3d., 29s. 3d. doz.; medium, 5s. 4d., 48s. doz.; large, 20s., 180s. doz., subject to usual quantity terms.

Wright, Layman & Umney, Ltd., Wright's coal-tar vaporising liquid, 1s. 1½d., 10s. 3d. doz.; 3s. 10d., 28s. 4d. doz.; exempt from purchase tax.

Business Changes

FIELD & CO. (AROMATICS), LTD., have removed their offices, laboratories and factory to Mount Pleasant, Alperton, Middlesex.

MACANDREWS & FORBES, LTD., removed on January 28 to 2 Caxton Street, Westminster, London, S.W.1. Telephones: Abbey 4451, 4452, 4453 and 5752.

PARLIAMENTARY NEWS

Patents and Designs Bill.—A Bill bearing this title was read a second time in the House of Commons on January 20.

Licences for New Businesses.—Major Lyons asked the President of the Board of Trade on January 20 what arrangements had been made to consider representations by local traders in relation to applications for the opening of new businesses.

Sir A. Duncan: Local licensing committees will make their own arrangements.

Rubber Control.—Mr. Parker asked the Parliamentary Secretary to the Ministry of Supply on January 21 why the persons responsible for maladministration in the Rubber Control had been retained in the new Control Board.

Mr. Harold Macmillan: I am unable to accept the suggestion that there has been maladministration in the Rubber Control.

Custody of Poisons in the Army.—Mr. Wakefield asked the Secretary of State for War on January 20 whether he was satisfied with the regulations in force in the Army on dispensing of medicines and as to the safe custody and proper labelling of poisons and dangerous drugs.

Sir E. Grigg: Yes, Sir. Fresh instructions calling attention to the regulations on this subject have recently been issued. A simple

notice on the care, custody and administration of poisons and dangerous drugs will be posted in a conspicuous position in all medical establishments.

Vitamins for Pharmaceutical Use.—Captain Elliston asked the Parliamentary Secretary to the Ministry of Food on January 20 whether he would remove his restrictions on the use of vitamins for pharmaceutical purposes.

Major Lloyd George: There are no restrictions on the use of vitamins B₁ and D for pharmaceutical purposes. Vitamin A is still available in reduced quantities for pharmaceutical purposes. It is not possible to increase the present supply owing to the large demands for this vitamin for the fortification of margarine. As regards vitamin C there is no restriction on the use of ascorbic acid for tablets and other "straight" preparations. There is, however, a voluntary restriction with the manufacturers whereby pharmaceutical manufacturers of proprietary brands of multi-vitamin preparations are allowed supplies of ascorbic acid on the basis of their average usage in the first five months of 1941 prior to the introduction of the Vitamin C Control Order on June 2 last. This restriction has been imposed on the recommendation of the special Diets Advisory Committee of the Medical Research Council.

PERSONALITIES

MR. WILLIAM FORSTER, son of Mr. W. Forster, Ph.C., and Mrs. W. Forster, Ph.C., 30 Church Street, Seaham, who recently graduated M.B., B.S., Durham, has since obtained the Scottish triple qualification L.R.C.P., Edin., L.R.C.S., Edin., L.R.F.P. & S., Glasg.

WOR. BRO. THOMAS MARNS, member of the Pharmaceutical Society's Council, Past-Master of the Isma Lodge, No. 5009, was invested with London Grand Rank by the R.W. Assistant Grand Master, Brigadier-General V. H. W. Darell, C.B., C.M.G., D.S.O., at the Freemasons' Hall, London, on January 26.

MR. M. W. PARTRIDGE, B.Sc., B.Pharm., Ph.C. (research assistant to the British Pharmacopœia Commission), has gained the degree of Doctor of Philosophy in the Faculty of Medicine (non-clinical), University of London. The first part of his thesis, "A Study of Choline and Related Esters," was based on work carried out at University College, Nottingham; the second part, "The Forensic Chemical Aspects of Soaps as Abortifacients," was based on investigations conducted at the West Midland Forensic Science Laboratory, Birmingham.

MARRIAGES

MACDONALD—HUMPHREY.—At Glasgow Cathedral, on January 16, John Macdonald, M.P.S., 1 Knightscliffe Avenue, Glasgow, W.3, to Agnes (Nessie) Smith Humphrey.

MCAUGHT—WEST.—At the Douglas Hotel, Glasgow, on January 23, Hugh Luke McNaught, R.A.O.C., to Charlotte Taylor West, daughter of Mr. J. T. West, M.P.S. (Glasgow Royal Infirmary), 303 Curtis Avenue, Glasgow.

SMITH—BELL.—At Blackburn Cathedral, on January 16, James Smith, M.P.S., 137 Whalley New Road, to Doris Bell.

DEATHS

BACK.—Recently, Mr. Charles Thomas Back, M.P.S., 75 Kensington Church Street, London, W.8, aged seventy-two.

BILLINGTON.—Recently, Mr. John James Billington, M.P.S., 487 Marine Road, Morecambe, aged sixty.

BUSWELL.—Recently, Mr. Thomas Henry Buswell, M.P.S., aged sixty.

DALES.—Recently, Mr. Percy George

Dales, M.P.S., Worsthorne, Burnley, aged fifty-nine.

EWART.—Recently, Mr. Samuel Ewart, M.P.S., 213 Whitley Road, Whitley Bay, aged sixty-two.

HEWLETT.—Recently, while on active service, Flight-Sergeant Douglas Vivian Hewlett, R.A.F.V.R., younger son of Mr. Vivian C. Hewlett, Ph.C., of C. J. Hewlett & Son, Ltd., manufacturing chemists, London, E.C.2.

LAWSON.—Recently, Mr. Albert Edward Lawson, Hulham Road, Withycombe, Exmouth, aged seventy-nine.

ORMISTON.—Recently, Mr. Thomas Dalgleish Ormiston, M.P.S., Kippilaw Cottage, near Melrose, aged forty-four.

PLOWRIGHT.—Recently, Mr. Alfred Plowright, Ph.C., 178 Kennington Park Road, London, S.E.11. Mr. Plowright passed the Minor examination of the Pharmaceutical Society in 1898.

RAISTRICK.—Recently, Mr. Arthur Thomas Raistrick, M.P.S., Drummond Street, Rotherham, aged fifty-four.

RICHARDSON.—Recently, Mr. Richard Conway Richardson, M.P.S., Smithdown Road, Liverpool. Mr. Richardson passed the Minor examination in 1897.

RIPPIN.—On January 22, Mr. Samuel Rippin, aged seventy-two. Mr. Rippin was a faithful and much respected member of the staff of E. V. Rippin & Son, Ltd., druggists' sundriesmen, 639 Romford Road, Manor Park, London, E.12.

STIRLING.—Mr. Archibald Colin Stirling, late chairman and managing director of R. C. Treatt & Co., Ltd., essential oil merchants, Hart Street, London, E.C.3, whose death was announced in our last week's issue, joined the firm a few years prior to 1913, when it became a limited company. In that year he was appointed a director, and in 1924, on the death of Mr. R. Court-Treatt, the founder of the firm, Mr. Stirling became chairman and managing director. During the last war he served with the Royal Artillery and was taken prisoner. Mr. Stirling was a well-known and popular member of the essential oil trade and was a contributor to the *C. & D.* on such subjects as ambergris, Kenya pyrethrum and Abyssinian civet. During the post-war years, he carried on his business in the City and was recognised as an expert in many of the products he handled. The funeral service was held on January 20 at the South London Crematorium, Streatham Vale.



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TRADE MARKS

(From "The Trade Marks Journal,"
January 7, 1942)

Design with "Black & White" and "Health"
and "Beauty" (no right to the exclusive
use of any of the words quoted); for cos-
metics (3). By Black & White (Cosmetics),
Ltd., "Rylstone," Holders Hill Crescent,
London, N.W.14. 616,836.

"VARSITY"; for hair and shaving creams (3).
By Shepherd's Home Products, Ltd., Cass-
land Works, Bramshaw Road, London, E.9.
616,844.

"THE FAMOUS BESSIES O'TH' BARN FRUIT DROPS"
and design (Cherub cornet players, fruit
devices, etc.); for medicated and other
sweetmeats and confectionery (5). By Hall
Brothers (Whitefield), Ltd., Stanley Street,
Whitefield, near Manchester. 616,774 and
616,775.

THE CHEMIST AND DRUGGIST

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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

VOL. CXXXVII JANUARY 31, 1942 NO. 3234

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

What is a Therapeutic Dose?

SECTIONS 1 (b) of the Food (Sugar Confectionery) Order and of the Food (Chocolate and Chocolate Confectionery) Order (C. & D., January 17, p. 67), which amend respectively the Sugar Confectionery (Maximum Prices) Order, 1941, and the Chocolate and Chocolate Confectionery (Maximum Prices) Order, 1941 (C. & D., October 25, 1941, p. 117), set a problem on interpretation that is likely to prove of considerable importance to manufacturers of medicated confectionery. The clause in question, which exempts from the provisions of the above orders relating to maximum prices a certain category of medicated confectionery, reads as follows:—

(b) Products which contain a therapeutic dose of any medicament which is the subject of a monograph contained in the British Pharmacopoeia, or the British Pharmaceutical Codex.

Official and Technical Interpretations

Anticipating the difficulty of interpreting the term "therapeutic dose" we sought a ruling on the matter from the Ministry of Food, and have been advised by the Director of Cocoa, Chocolate and Sugar Confectionery as follows: "A question of

the interpretation of Orders of this kind is a matter for the Courts and is not one upon which I feel free to express any opinion." In view of this non-committal official reply, we have obtained the following opinion from a well-known expert pharmacologist and clinician:—

A therapeutic dose of a medicament is one that clinical experience has shown produces a therapeutic response in the average patient likely to derive benefit from its use. There is, of course, a wide individual variation in the dose of the medicament needed to produce a response and, therefore, the therapeutic dose must be expressed as a range rather than as an abstract figure. Age and weight are also factors that must be considered. The official dose is not always the therapeutic dose recognised by many clinicians, and clinical experience has often shown that the official dose requires modification. Sometimes the official dose may be too high or too low, as the following examples show:—

Drug	Official dose	Dose according to more recent clinical research
Ascorbic acid	100–250 mgm.	250–500 mgm.
Aneurin	0.66–1.8 mgm.	5–25 mgm.
Procaine	0.3 gm.—0.12 gm.	Effective in doses of 0.01–0.005 gm. intramuscularly
Iron and ammonium citrate	5–15 gr.	60 gr.
Liver extract	Quantity equivalent to $\frac{1}{2}$ lb. liver	Quantity equivalent to $\frac{1}{2}$ lb. liver or more up to 6 lb.

Not Necessarily B.P.

It is reasonable to argue that a "therapeutic dose," for the purpose of the above Orders, is not necessarily an amount of a medicament which falls within the dose limits laid down in the B.P., since a further exemption from the provisions of the Orders is extended to products which comply with the formulas in the B.P., B.P.C., N.F., and N.W.F., and do not contain a quantity of medicament corresponding to the minimum

B.P. dose for that substance. Thus the official tannic acid lozenges contain gr. $\frac{1}{2}$ of tannic acid in each lozenge, that is, one-tenth of the minimum B.P. dose of tannic acid. If the opposite view is taken, that a "therapeutic dose" must fall within the limits laid down by the B.P. for any medicament, it would apparently be necessary in certain cases for a manufacturer wishing to claim exemption from the Orders to label his lozenges so that a minimum number of them must be taken at once to obtain a therapeutic dose of a certain medicament contained in them. This number, in certain instances, might be unreasonably high if the lozenges were primarily intended to produce a local rather than systemic effect.

From such arguments it can be seen that opinions as to what constitutes a "therapeutic dose" may vary, but we believe the above considered and authoritative opinion, which comes from a thoroughly impartial source, may be of service to the manufacturers concerned and the trade generally in the absence of enlightenment on the point from official quarters.

As Others See Us

WE were a little intrigued when reading an article entitled "Civilian Morale and Cosmetics," published in the November issue of the American "Drug and Cosmetic Industry," in which the writer, after warning the American cosmetics industry it may be forced to justify its existence, sets out to show that "cosmetics are vital to defence." In doing so, he gives quotation from the reported experience of this country on the subject of shortage of "make-up" during two years of war. We cull the following extracts from the article: "An other report from England in September indicates that shortages of cosmetics cause near-riots in some towns. . . ." "Some women have gone so far as to use shoe polish to decorate their eyebrows and bent paper clips for hair pins. . . ." "Billiard parlours have reported a surprising disappearance of cue chalk, some of it pink, and it was discovered that girls were using it for rouge. . . ." "A brave lipstickied mouth steadies a woman through all sorts of major catastrophes. . . ." Doubtless, like ourselves readers will not take these "reports" too seriously. The writer had apparently overlooked the cosmetic possibilities of luminous paint in the black-out.

RECENT RESEARCH

Solubility of Ephedrine in Liquid Paraffin.

—In an examination of the solubility of ephedrine in liquid paraffin, Rosin, Eger and Mack ("Journal of the American Pharmaceutical Association," XXX, 10, 275) obtained the following average results expressed in gm. per 100 mls of solution.

Grade of liquid paraffin	Semihydrated	Anhydrous
Light, at 20° C. . .	0.84	2.235
Light, at 25° C. . .	1.242	3.133
Heavy, at 25° C. . .	1.110	2.873

Calcium Values.—Tests on the comparative calcium contents of milk and vegetables and the application of the findings to the long-range planning of dietaries are discussed in the "Journal of the American Medical Association," 1941, II, 1786. Although milk with its 0.12 per cent. of calcium is considered the best source of calcium, vegetables also contribute this element to the diet. But when experimental animals are forced to obtain a considerable proportion of their daily

calcium from vegetable sources, the availability of the element is definitely less than when milk is the main source. Taking the availability of calcium in milk as 100, carrots, fresh lettuce and string beans have been found to have the respective values of 85, 80 and 74. It is suggested that something present in vegetables decreases the usefulness of the contained calcium. Experiments to determine the relationship between net calcium loss to the body on calcium-poor basic ration, and the supplementary dietary calcium required to eliminate the loss, showed that only about 20 per cent. of the calcium in dried or fluid milk was utilised by children and adults in the conditions of the study. Other studies on sixteen adults, in which milk provided a large part of the calcium, show essential agreement in daily calcium requirements, the value being 9.6 mgm. per kilo of body weight from one study and 10.7 mgm. from the other. The values are greater than the figure currently looked on as adequate and which is the existing basis for estimating the nutritive value of dietary programmes with respect to calcium.

CHEMISTRY OF THERAPEUTIC SUBSTANCES

by F. Prescott, M.Sc., Ph.D., A.I.C., L.R.C.P., M.R.C.S.

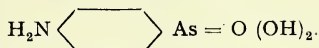
XI.—Organic Arsenical Compounds

Aliphatic Derivatives.—The aliphatic organic arsenic compounds have never assumed much importance in medicine, although sodium cacodylate, $(\text{CH}_3)_2\text{AsO} \cdot \text{ONa}$, was one of the first organic arsenicals to be used. This is an oxidation product of cacodyl, or tetramethyldiarsine, $(\text{CH}_3)_2\text{As} - \text{As}(\text{CH}_3)_2$. Although cacodylic acid (dimethylarsenic acid) and its sodium salt contain much arsenic they are relatively non-toxic. They have been used in a variety of diseases of the skin, nervous system and blood, often in conjunction with strychnine. Disodium methylarsonate, $\text{AsO}(\text{CH}_3)(\text{ONa})_2$, is another aliphatic arsenical compound used for similar purposes.

Simple Phenyl Derivatives.

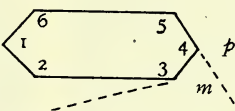
The aromatic arsenical compounds can be divided into those containing one benzene ring and those, such as the arspenamines, which contain two benzene rings linked by means of two arsenic atoms. In 1905, after Chaudinn had discovered the *Treponema pallidum*, the causative organism

of syphilis, Ehrlich began an intensive study of a large number of organic arsenicals with a view to obtaining a drug that would sterilise the *Treponema* without damaging the host. He found that the most effective compounds were those of trivalent arsenic linked to a benzene ring with an amino group in the para position. One of the first compounds investigated was atoxyl or sodium arsanilate, which Thomas had shown was effective against trypanosomes. This is the sodium salt of aminophenyl-arsonic acid,



Another substance, known as soamin, is practically identical with atoxyl, differing only in the number of molecules of water of crystallisation. These drugs are still employed to a limited extent in the treatment of trypanosomiasis, and although once used in syphilis, they have now been abandoned in the treatment of this disease in favour of less toxic arsenicals. Acetyl atoxyl or sodium acetylarsanilate resembles the parent substance closely, both chemically and pharmacologically.

The arsenic in atoxyl is quinquevalent. To overcome the disadvantages and toxicity of the drug a number of other quinquevalent arsenicals have been prepared. The formulas and chemical relationships of the more important of these are shown below:—

Name			Chemical Name
Acetarsol	$\text{NH} \cdot \text{CO} \cdot \text{CH}_3$	OH	3-Acetyl-amino-4-hydroxy phenylarsonic acid
Carbasone	—	$\text{NH} \cdot \text{CO} \cdot \text{NH}_2$	4-Carbamino-phenylarsonic acid
Tryparsamide	—	$\text{NH} \cdot \text{CH}_2 \cdot \text{CONH}_2$	Sodium N-phenyl-glycineamide- <i>p</i> -arsonate
Treparsol	$\text{NH} \cdot \text{CHO}$	OH	3-Formylamino-4-hydroxy phenylarsonic acid
Neocryl	—	$\text{NH} \cdot \text{CO} \cdot (\text{CH}_2)_2 \text{CO} \cdot \text{NH} \cdot \text{CH}_3$	Sodium salt of succinylomethylamide- <i>p</i> -arsonate

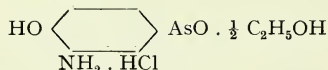
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Although less toxic than atoxyl these drugs have to be used with great care, as they have a tendency to attack the optic nerve. On the other hand, they penetrate into the cerebrospinal fluid more readily than arspenamine and its derivatives, and are therefore often used in the treatment of syphilis of the central nervous system. Tryparsamide in particular has been used with success in the treatment of neurosyphilis. Acetarsol (stovarsol, spirocid, kharophen, orarsan) is not only used in

the treatment of syphilis, but also for amoebic dysentery, yaws, relapsing fever and malaria. Unlike other arsenicals, it is effective by mouth in syphilis, although it is not used in the acute condition. In France amoebic dysentery is treated by the combined use of acetarsol and emetine. Acetarsol is insoluble in water but it forms a soluble sodium salt, which is used for injection and for vaginal use in the treatment of leucorrhœa due to trichomonas infection. The diethylamine compound is known as acetylarsan. Carbasone is stated to be less toxic than acetarsol and more effective in the treatment of amoebic dysentery. It is practically insoluble in water, but dissolves in aqueous alkaline solutions. Its principal use is as an amoebicide, and in suppository form in trichomonas infection. Treparsol is also used as an amoebicide, in the treatment of malaria, and orally in syphilis. Neocryl has been found to be active both in trypanosomiasis and syphilis. It is less toxic than tryparsamide and has greater trypanocidal activity. According to a report to the Therapeutic Trials Committee of the Medical Research Council (1936), it gave very satisfactory results in the treatment of neurosyphilis.

The supposition that phenylarsonic acids and the arsphenamines owe their therapeutic action to phenylarsenoxide, $C_6H_5 \cdot AsO$, formed in the body led to attempts to prepare 3-amino-4-hydroxy derivatives of this compound.

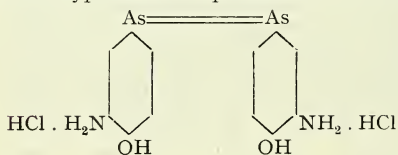
The most recent of these to be introduced is mapharside (mapharsen). It is the hemialcoholate of 3-amino-4-hydroxyphenylarsine oxide,



and, unlike the previously mentioned compounds, contains trivalent arsenic. Mapharside, which is used in the treatment of syphilis, is said to be less toxic and to give rise to fewer reactions than compounds of the arsphenamine class.

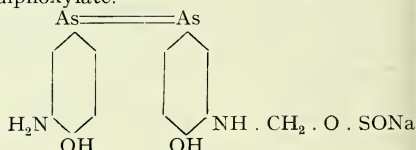
Bis-phenyl Derivatives (Arsphenamines).

—The first arsenobenzene used in the treatment of syphilis was arsphenamine or "606."



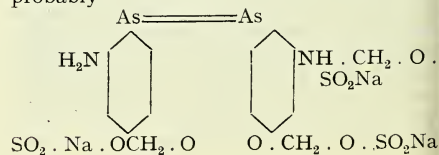
The use of the term arsphenamine is in a

generic sense to include the trivalent phenyl derivatives of arsenic containing two benzene rings (bis-phenyl) linked by two arsenic atoms. Arsphenamine is the dihydrochloride of 3 : 3' diamino-4 : 4'-dihydroxyarsenobenzene. This is acid in reaction and unsuitable for injection. It is therefore neutralised before use. There are many grave disadvantages attached to its use, including instability, technical difficulties of administration, and toxicity. "606" is rarely used now. In order to overcome the disadvantages of the drug Ehrlich prepared a more stable, more soluble, and less toxic compound. This was neoarsphenamine (neosalvarsan, or "914"). He realised that the arsphenamine base was the important therapeutic factor, and synthesised a compound containing it, which at the same time possessed a lower toxicity and formed a stable solution. "914" is a condensation product of arsphenamine and sodium formaldehyde sulphoxylate.



It is a yellow powder, soluble in water to form a neutral solution. Owing to the readiness with which the solution becomes oxidised, the greatest care must be taken to avoid aeration and to inject a freshly prepared solution. It is always given by intravenous injection. Oxidation of the compound forms a markedly toxic product. Neosalvarsan is the standard organic arsenical used in the treatment of syphilis. Arsphenamine can be stabilised by forming the diglucoside, also known as stabilarsan. This is more stable when exposed to air than "914." It is issued in ampoules containing a sterile solution in 50 per cent. glucose. Silver arsphenamine is the silver salt of arsphenamine. It is more effective in the treatment of neurosyphilis, but is also more toxic.

Sulpharsphenamine is a condensation product of arsphenamine and sodium formaldehyde bisulphite. The formula is probably



and not as given in the B.P. The compound resembles nearsphenamine in action, but its therapeutic activity is not so great. It has the advantage of being less irritant, and can be administered intramuscularly or subcutaneously. Sulpharsphenamine bismuth (bismarsen) or bismuth arspenamine sulphate is slower in action than arspenamine, but possesses the advantage that it can be given intramuscularly, whereas arspenamine cannot.

INSURANCE ACT DISPENSING

Drug Tariff.—The Tariff for December, 1941, now issued, contains revised prices based on the preparations of the National War Formulary.

East Sussex.—The Insurance Committee has agreed that chemists should be asked to arrange a rota so that patients may be sure of obtaining medicines after 6 p.m. each day.

Wallasey.—At the annual meeting of the Insurance Committee, recently, it was reported that out of fifty-one chemists' shops in the borough at the outbreak of war, fifteen had been closed as a result of enemy action. In one or two instances staff shortages had also caused closures.

Leicester.—The Insurance Committee has drawn the attention of chemists in its area to the fact that their agreement requires them to remain open between 9 a.m. and 7 p.m. each day. Some confusion had arisen from a general regulation fixing an earlier closing hour for shopkeepers in the city. Prescriptions dispensed in the Committee's area in 1941 numbered 429,621, an increase of 21,400 over 1940.

Southport.—A complaint that chemists are unable to obtain supplies of medicinal liquid paraffin, although chain stores have large stocks, was made at a meeting of the Insurance Committee on January, 20. A letter from Mr. H. Orr (secretary of the Pharmaceutical Committee) read: "Many chemists are concerned to find that, while they have great difficulty in obtaining supplies of liquid paraffin with which to dispense prescriptions, they see this commodity offered for sale in chain stores. In some cases chemists have been without supplies. My committee is of the opinion that commodities such as this, which are in short supply, should be made available to chemists." It was decided to write to the National Association of Insurance Committees to see what could be done.

MEDICAL ABSTRACTS

Thiocyanates in Hypertension.—Continuing previous work on the effect of blood cyanates in the treatment of hypertension, Barker, Lindberg and Wald ("Journal of the American Medical Association, 1941, II, p. 1591) have recently issued a further report. The treatment has been tested on 246 cases of hypertension for periods ranging from two to ten years. The findings are summarised as follows: Controlled thiocyanate therapy has relieved symptoms and reduced blood pressure in 47.5 per cent. of patients with hypertension. Blood-pressure reduction is effective only by blood-thiocyanate concentration of from 8-12 mgm. per 100 c.c. Improvement is usually to be expected in from two to four weeks, but three months of persistent therapy may be required. A maintenance dose must be determined for each patient, depending on symptoms, blood-pressure response and blood-thiocyanate concentration (8-12 mgm. per 100 c.c.). Determination of the thiocyanate in the blood is the only safeguard to dosage control.

Oestrogens in the Menopause.—The evaluation of the implantation of α -oestradiol and its esters in the form of crystals and pellets is discussed by Salmon, Geist and Walter in the "Journal of the American Medical Association," 1941, II, 1843. The efficiency of the implantation tests on 180 patients was evaluated on the basis of (a) degree and duration of symptomatic relief; (b) intensity and duration of oestrogenic activity, and (c) duration of hypophysial inhibition. A control series of eighteen menopausal patients was given a single injection of comparable amounts of oestrogen in solution in oil. Judged by the above criteria, the implantation of oestrogens in the form of loose crystals or compressed pellets was found more efficient than the injection of comparable amounts of hormone in oil. Loose crystals of α -oestradiol and α -oestradiol benzoate were more effective than the compressed pellets of the same chemical constitution. The longest period of symptomatic relief was obtained by the implantation of α -oestradiol crystals. The authors consider that subcutaneous implantation of oestrogens in the form of loose crystals of α -oestradiol, in amounts varying from 10 to 25 mgm., is a simple, safe and efficient method of administering oestrogens in the treatment of symptoms attributable to oestrogen deficiency resulting from surgical or röntgen castration or from the natural menopause.

COD LIVER OIL IN WOUND TREATMENT

CONSIDERABLE light is thrown on the comparative healing effects of cod liver oil, of its chief constituents, and of related compounds by experiments conducted at the Strangeways Research Laboratory, Cambridge, by Dann, Glücksmann and Tansley ("Lancet," January 24, p. 95). The authors summarise the findings of other workers before describing experiments of their own.

The Experiments Described

In most of the experimental and all the clinical work summarised the criteria of healing were time of closure and rate of decrease in wound size. Closure of a wound

has been found not necessarily to imply sound healing, and surface observations shed no light on the mode of action of therapeutic substances. The authors record the histological effects of cod liver oil and other substances on the healing of standard wounds in the rat. A uniform technique was followed in making standard wounds, and the rats used were nine to eighteen months old and were fed on a well-balanced stock diet. The substances applied as dressings were twelve in number (see column one of table). All were applied in pastes or powders without a covering bandage. The results are given in the table below.

Materials used in test	Vitamin A (International units per gm.)	Iodine value	Perox- ide value	Effect on collagen	Effect on epithelium
Cod liver oil, sample A..	1200	180	5.6	Regeneration promoted. Wound bridged by fibres on 7th day, against 10th in untreated controls	Not affected
„ „ sample B..	870	170-80	7	Similar to above	Slight delay in regeneration
Cod liver oil distillate ..	1020-80	150	0.83	Regeneration of fibres speeded up	Regeneration delayed
Cod liver oil residue ..	0	165	4.6	Latent period of regeneration not shortened, but process speeded up when started	No interference with regeneration
Vitamin-A naphthoate ..	1,900,000	0	0	Similar to above	Well-marked slowing of regeneration
Vitamin A in coconut oil	10,800	8-10	0	Similar to above	Similar to above
Coconut oil	0	8-10	0	Latent period unaltered. Regeneration only slightly accelerated	Similar to above
Peroxidised arachis oil ..	0	90	30	Regeneration greatly stimulated, followed by hyalinisation	Regeneration delayed mainly by hyalinisation of collagen tissue
Arachis oil	0	90	0	Latent period shortened. Regeneration greatly stimulated	Regeneration seriously delayed
Linoleic acid	0	181.4	0	Latent period shortened. Regeneration accelerated	Regeneration accelerated
Methyl linoleate.. ..	0	172	0	Latest period not shortened. Regeneration promoted	Regeneration seriously delayed
Liquid paraffin	0	0	0	Regeneration promoted	Regeneration not interfered with

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, January 28

The week under review shows that very quiet conditions have again prevailed in the London drug and chemical markets, and that little of interest has transpired. The moderate business that has been done has come, in the main, from the home consuming trades and the prices paid are little different from those ruling last week. The only price change notified by makers of PHARMACEUTICAL CHEMICALS is an advance of one penny per lb. in PHENOLPHTHALEIN.

Crude Drugs

Prices in this section are mostly firmly maintained at the levels recorded last week and in some cases holders of goods do not appear to be anxious to sell. Inquiries for AGAR have considerably diminished, as was to be expected in view of the high prices now ruling. A parcel of Curaçao ALOES may be on the London market shortly. As noted last week, licences are now required to deal in ANTIMONY; prices of the metal are unchanged. The scarcity of BALSAM COPAIBA continues, and spot prices are nominal. No BELLADONNA LEAVES are available, but supplies of ROOT may soon be offering. The small remaining stocks of BUCHU continue to fetch high prices. Small lots of CAMPHOR are stated to be available to approved buyers. Some supplies of CASCARA SAGRADA are reported to have arrived under the Lease-Lend Act, but no details are available at present. Prices of CHILLIES are firmly maintained. Pending the issue of licences, business in DERRIS ROOT is at a standstill. Supplies of DRAGON'S BLOOD are becoming increasingly difficult to find. ERGOT is firm. Unrestricted GUM ACACIA shows an advance on spot. IPECACUANHA has been in fair inquiry. An active demand has continued for MENTHOL; there is no immediate shortage, but further replenishments are unlikely. Any further supplies of SENEGA on spot would be dearer. SHELLAC is steady. Sharp rises have occurred in the prices of medium grades of TRAGACANTH. Some grades of CARNAUBA WAX are dearer.

Essential Oils

Price changes this week in essential and fixed oils are few, and business continues

dull. ANISE (STAR) has again advanced in price. Spot prices of BAY are maintained. CANANGA is firm and in poor supply. No supplies of CASSIA are available. Forward quotations for CEDARWOOD are unobtainable, and spot prices are nominal. Demand for CITRONELLA has been maintained, but prices have remained at last week's figure. LEMONGRASS is firm at former figures. NUTMEG is reported dearer at the source. Only a few odd cases of Chinese PEPPERMINT appear to remain on spot. SASSAFRAS is unchanged.

Exchange Rates on London

Bank of England fixed rates at the opening on January 28 were: New York, 4.03 dollars; Montreal, 4.45 dollars; Netherlands Indies, 7.60 florins; Lisbon, 100 escudos; Stockholm, 16.90 kroner; Zurich, 17.35 francs; Buenos Aires, 17.02 paper pesos. The Chinese national dollar is quoted at 3½d., and the free Madrid rate is 40.50 pesetas (official) and 46.55 (voluntary).

Pharmaceutical Chemicals

ACETANILIDE.—Demand is rather slow, but prices are steady at about 2s. 4d. to 2s. 6d. per lb., according to quantity.

ASPIRIN.—Makers' prices are steady at the recent advance:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
From 1 lb. . .	s. d. 4 1½	—	—	—	—
From 4 lb. . .	4 0½	3 10½	—	—	—
From 7 lb. . .	3 11½	3 9½	3 9½	—	—
From 14 lb. .	3 10½	3 8½	3 8½	3 8	—
From 28 lb. .	3 9½	3 7½	3 7½	3 7	3 6½
1 cwt. . .	3 2½	3 0½	3 0½	3 0*	2 11½
5 cwt. . .	3 2	3 0½	2 11½	2 11½*	2 11
10 cwt. . .	3 1	2 11½	2 10½	2 10½*	2 10

* 8 × 14 lb. and upwards in one delivery, ½d. per lb. less. Sale subject to buyer's undertaking not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made, and, if powder is converted into tablets, not to sell any number at prices or terms below scale current at time of sale.

ASPIRIN TABLETS.—As announced recently, British makers' prices were advanced by two-pence per 1,000, as follows: Under 5,000, 3s. 3½d.; 5,000, 3s. 1½d.; 10,000, 3s. 0½d.; 25,000, 2s. 10½d.; 50,000, 2s. 9½d.; 100,000, 2s. 8½d.; 250,000, 2s. 8d.; 500,000, 2s. 7½d.; 1,000,000, 2s. 6½d.; 2,000,000, 2s. 5½d. per 1,000.

ATROPINE.—Details of makers' prices, which are unchanged, were given last week.

BARBITONE.—Any available supplies would be worth about 45s. per lb., with SODIUM BARBITONE at about the same figure.

BENZALDEHYDE.—No improvement is noted in the supply position, but prices are unchanged at between 5s. and 5s. 6d. per lb.

BENZOIC ACID.—Makers advise that good stocks are available for therapeutic purposes. Prices are unchanged at from 2s. 6d. to 3s. per lb., according to quantity.

BENZYL BENZOATE.—None available for perfumery, but good supplies may be had for medical uses. Price remains at between 4s. 6d. to 5s. 6d. per lb.

BORAX.—Makers' prices for minimum one-ton lots of B.P. quality are as follows: Granulated, £39 10s. per ton; crystals, £40 10s.; powder, £41, in one-cwt. bags, carriage paid in Great Britain. Commercial grades, £8 per ton less.

BORIC ACID.—Makers quote B.P. quality as follows: Granulated, £60 15s. per ton; crystals, £61 15s.; and powder, £62 15s. for minimum one-ton lots, in one-cwt. bags, carriage paid in Great Britain. Commercial grades, £8 per ton less.

BROMIDES.—Makers' prices for POTASSIUM range between 2s. 8½d. and 3s. 11d. per lb., according to quantity and packing. SODIUM is one penny per lb. extra and AMMONIUM threepence per lb. extra. A full scale of prices was given in the *C. & D.*, January 24, p. 122.

CITRATES.—No changes have been notified in makers' prices: POTASSIUM, B.P., 28 lb. to 1 cwt., 2s. 8d. per lb.; from 14 lb., 2s. 9½d.; from 7 lb., 2s. 10½d.; from 4 lb., 3s. 0½d.; under 4 lb., 3s. 3d. Prices of SODIUM, B.P., are at one penny lb. below, and IRON AND AMMONIUM (scales), B.P., at threepence lb. above these prices.

CODEINE.—Makers' prices are at the levels indicated last week.

ETHERS (METHYLATED).—The following are makers' prices:—

Specific gravity and grade	Winchester quarts, per lb.	Not less than		Drums and carboys, per lb.
		6 w. qts., per lb.	12 w. qts., per lb.	
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
0°750	1 5½	1 4½	1 4½	1 3½
0°735	1 5½	1 5½	1 4½	1 3½
0°730	1 5½	1 5½	1 4½	1 3½
0°725	1 7½	1 7½	1 6½	1 5½
0°725 triply rectified	2 0½	1 11½	1 11½	1 10½
0°720	1 8½	1 8½	1 7½	1 6½
0°717	2 2½	2 2½	2 1½	2 0½
0°720 B.P., not for anaesthesia	1 10	1 9½	1 9	1 8

Net prices, usual terms. Special prices for quantities and contracts, subject to rise-and-fall clause. Prices for anaesthetic ethers unchanged.

GLYCERIN.—Prices for small quantities are steady, as follows: 1-cwt. drum, 86s. per cwt.; 56-lb. tin, 94s.; 28-lb. tin, 97s.; 14-lb. tin, 100s. per cwt. All prices are subject to discount of 2½ per cent. for cash in twenty-eight days.

GUAIACOLS.—Supplies are limited, but values are unchanged at between 13s. and 14s. per lb. for CARBONATE and CRYSTALS, according to quantity.

IODIDES.—Steady at makers' prices: POTASSIUM IODIDE, B.P.—112 lb., 8s. 8d.; 28 lb., 9s. 2d.; 14 lb., 9s. 8d.; 7 lb., 11s.; 4 lb., 11s. 6d.; smaller quantities, 12s. per lb. SODIUM IODIDE, B.P.—28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. 1d. per lb. IODOFORM, B.P.—28 lb., 12s. 1d.; 14 lb., 12s. 7d.; 7 lb., 14s. 9d.; 4 lb., 15s. 7d.; smaller quantities, 16s. 5d. per lb. IODIDE RE-SUBLIMED, B.P.—112 lb., 9s. 11d.; 28 lb., 10s. 5d.; 14 lb., 10s. 11d.; 7 lb., 12s. 6d.; 4 lb., 13s. 2d.; smaller quantities, 13s. 11d. per lb.

MERCURIALS.—Details of controlled prices for quantities up to two cwt. were given last week (p. 123).

MERCURY IODIDES.—Makers' prices for these salts are unchanged, as follows: RED, less than 7 lb., 17s. per lb.; not less than 7 lb., 16s. 8d.; not less than 14 lb., 16s. 2d. GREEN, less than 7 lb., 19s.; not less than 7 lb., 18s. 8d.; not less than 14 lb., 18s. 2d. YELLOW, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 4d.; not less than 14 lb., 19s. 10d. per lb. net, carriage paid.

METHYL SALICYLATE.—As noted last week, makers' prices have been advanced by 1½d. per lb., as follows: Five cwt., 1s. 10d. per lb.; one cwt., 1s. 10½d.; smaller lots, in bottles, 2s. 0½d. per lb.

PHENOLPHTHALEIN.—Makers' prices have been advanced by one penny per lb. New rates are as follows: Less than 7 lb., 4s. 3d. per lb.; 7 lb., 4s. 2d.; 14 lb., 4s. 1d.; 28 lb., 4s.; 1 cwt., 3s. 11d.

β-PHENYLISOPROPYLAMINE.—Quoted by British makers at 150s. per lb.; good supplies are available.

POTASSIUM PERMANGANATE.—As already announced, the following revised scales of prices came into operation on January 9: B.P., in 1-cwt. drums.—From 1 cwt., 1s. 10d. per lb.; from 3 cwt., 1s. 9½d. Technical, in 1-cwt. drums.—From 1 cwt., 170s. 6d. per cwt.; from 3 cwt., 166s.; from 5 cwt., 163s. 6d.; from 1 ton, 161s.; from 4 tons, 158s. 6d. Technical, in 5-cwt. drums.—From 5 cwt., 161s. per cwt.; from 1 ton, 158s. 6d.; from 4 tons, 156s. 3d. Net, delivered nearest railway station in Great Britain, drums extra and returnable.

QUININE.—No change has been announced in the basic price of sulphate, which remains at £14 17s. 5d. per 100 oz., f.o.b. Java.

SACCHARIN.—Prices are controlled according to the Schedule to the Saccharin (Control and Maximum Prices) Order, 1941. (See *C. & D.*, January 10, p. 54).

SALICYLIC ACID (B.P.).—Makers' prices were recently increased by one penny per lb.

In containers of	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb.	2 8½	—	—	—	—
From 4 lb. . .	2 7½	2 5½	—	—	—
From 7 lb. . .	2 6½	2 4½	2 4½	—	—
From 14 lb. .	2 5½	2 3½	2 3½	2 3	—
From 28 lb. .	2 4½	2 2½	2 2½	2 2	2 1½
1-5 cwt. . .	2 0½	1 10	1 10½	1 10*	1 9½

* 8 × 14 lb. and upwards, in one delivery, ¾d. per lb. less. Prices include parcels or collapsible cartons; other packages charged extra. Prices subject to buyer's undertaking not to re-sell any quantity at prices or terms below scale current at time of re-sale.

SAFONIN.—Prices for the home trade remain at the levels indicated last week.

SODIUM SALICYLATE.—Makers recently announced an advance in price of 1½d. per lb.

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb.	3 1½	—	—	—	—
From 4 lb. . .	3 0½	2 10½	—	—	—
From 7 lb. . .	2 11½	2 9½	2 9½	—	—
From 14 lb. .	2 10½	2 8½	2 8½	2 8	—
From 28 lb. .	2 9½	2 7½	2 7½	2 7	2 6½
From 1 cwt. .	2 4½	2 2½	2 2½	2 2*	2 1½
From 5 cwt. .	2 4	2 2½	2 1½	2 1½*	2 1
1 ton . . .	2 3½	2 1½	2 1½	2 1*	2 0½

* 8 × 14 lb. and upwards, in one delivery, ¾d. per lb. less. Prices include parcels or collapsible cartons; other packages charged extra. Prices subject to buyer's undertaking not to re-sell any quantities at prices or terms below scale current at time of re-sale.

VANILLIN.—Makers' prices for material made from clove oil or guaiacal are as follows: Five cwt., 20s. per lb.; one cwt., 20s. 3d.; 56 lb., 20s. 6d.; less than 56 lb., 20s. 9d., carriage paid in U.K. Tins in cases returnable.

Crude Drugs

ACONITE ROOT.—Available in small quantities only at around 2s. per lb. on spot.

AGAR.—During a week of rather spasmodic inquiry, some business is reported to have been done in unrestricted material at 65s. per lb. Odd bales for medicinal use would be worth about 47s. 6d. per lb., and bacteriological is still selling slowly at between 25s. and 30s. per lb.

ALOES.—Continued inquiry for Curaçao appears to have resulted in little business. A parcel may soon be on the London market, the price of which will probably be in the region of 40s. to 45s. per unit.

ANTIMONY.—The value of English 99 per cent. remains at £120 per ton, delivered. Crude for the home trade is quoted on spot at £100 per ton delivered. As noted last week a licence is now required to buy and sell antimony under the Control of Non-ferrous Metals (No. 8) (Antimony) Order, 1942. (*C. & D.*, January 24, p. 114.)

ARECA NUT.—The price keeps steady as quoted on spot at about 5½d. per lb., but there is little doing.

BALSAMS.—*Copaiba*, B.P. is exceedingly scarce, and the price would be nominal at about 9s. per lb. Spot values of the other varieties are without quotable change, as follows: *Tolu*, about 8s. 9d. per lb.; *Canada*, about 7s. 9d. per lb.; and *Peru*, around 7s. 9d. per lb., ex store U.K., duty paid.

BELLADONNA.—Some supplies of root may soon be on the London market for which about 4s. to 5s. per lb. will be required on spot; no leaves are available.

BENZONIN.—Business has again been fair, with spot holders of Sumatra asking £9 to £10 10s. Free alomdy is worth about £25 per cwt.

BISMUTH METAL.—Prices are steady, with a moderate business passing at 6s. 3d. per lb. for minimum 5-cwt. lots.

BUCHU.—Present spot stocks are small, and about 5s. 3d. per lb. would be required for any available supplies of rounds.

CAMPHOR.—A fair home trade inquiry has been received. Supplies of small lots of Chinese B.P. powder are stated to be available to approved buyers at from 11s. 6d. to 11s. 9d. per lb., and a few Japanese slabs at between 11s. 6d. and 12s. per lb.

The United States Department of Commerce states that U.S. imports of refined natural camphor from Japan and China amounted to 519,431 lb., valued at \$319,968, during the first nine months of 1941, against 247,736 lb., valued at \$151,337, during the first nine months of 1940. No crude natural camphor has been imported into the United States since April, and imports have amounted to only 133,343 lb., valued at \$54,862, during the current year. Total imports of crude natural camphor have been as follows: 1940, 712,963 lb.; 1939, 1,156,882 lb.; 1938, 784,132 lb.; and 1937, 1,911,775 lb.

CANTHARIDES.—In rather better inquiry this week, but spot stocks difficult to find. A few cases of slightly water-damaged reported offered at 8s. 6d. per lb.

CARDAMOMS.—Little demand has been forthcoming and prices are without change: Current prices are as follows: Spot, Aleppy greens, 5s. 3d. per lb.; Aleppy seed, 6s.; Bombay seed, 5s. 6d.; Mangalore seed, 6s.; shipment, Aleppy greens 4s. per lb., c.i.f.; Bombay seed, 4s. 10d., c.i.f.; Mangalore bleached A, 5s. 3d., c.i.f. Mangalore bleached B, 4s. 9d. per lb., c.i.f.

CASCARA SAGRADA.—In fair inquiry, with small spot lots reported offered at 250s. per cwt. for 1940 peel, and 225s. for 1941. It is reported on the market that a few parcels have arrived under the Lease-Lend Act, but these do not seem to be on offer at present. The price in New York is stated to be in the region of 1s. 6d. per lb., but stocks are evidently small.

CHILLIES.—Prices remain firm, but business is small. Zanzibar, spot, 175s. per cwt. Mombasa, sellers at 175s. per cwt.; Sierra Leone and Sudan, both at 175s. per cwt., duty paid.

CLOVES.—Steady conditions obtain, with Zanzibar on the spot valued at 2s. 6d. per lb.; grade 2, float, sellers at 2s. per lb. Madagascar is unquoted.

COCHINEAL.—Demand is rather erratic. Some grey is offered on spot at around 5s. per lb., and black at about 5s. 3d. per lb.

COCOA BUTTER.—No change has been notified in the official maximum price of 1s. 5½d. per lb., ex factory or warehouse, except under Ministry of Food licence.

COCONUT (DESICCATED).—The Ministry of Food Order fixes the maximum price at 49s. per cwt.

COLCHICUM.—Business is small but steady, with dealers asking about 3s. per lb. for Indian corns on spot.

COLOCYNTH.—One particularly fine parcel of U.S.P. quality is reported to have been cleared at 4s. 3d. per lb. Spot offers of medium grade may be obtainable at around 4s. 6d. per lb.

DANDELION ROOT.—Dealers' spot price for Indian root would be in the region of 120s. per cwt., ex store.

DERRIS ROOT.—As noted last week, the Control of Derris (No. 1) Order, 1942 (C. & D., January 24, p. 114) now subjects to licence any transactions in this article. Present supplies are not plentiful and, until licences are issued, business will be at a standstill.

According to American sources, derris root is cultivated in the Netherlands Indies to the extent of some 17,200 acres at the present time, exports during recent years being as follows (in metric tons): 1935, 318; 1936, 177; 1937, 131; 1938, 141; 1939, 571; and 1940, 744. It is believed that the 1940 figure will be doubled during 1941. The price, up to September 1941, was \$0.20 per lb., including freight to New York, but a slight increase occurred thereafter. The usual rotenone and toxic content of the product is 8 per cent., the entire range being from 5 to 10 per cent.

DIGITALIS LEAVES.—The spot price of Portuguese leaves is without change on the week at 135s. per cwt., ex store. Some Indian leaves are reported on the way, but the price will be higher than that quoted above.

DRAGON'S BLOOD.—Spot goods are becoming difficult to find, but prices remain at the levels noted last week.

ERGOT.—Firm, with the spot price in the region of 7s. 9d. per lb.; shipment, about 7s. 6d. per lb., c.i.f.

GINGER.—West African, spot, sellers at 180s. per cwt.; afloat, 125s., c.i.f. Cochin, unwashed, spot, about 177s.; afloat, easier at about 150s.; new-crop, 82s. 6d. per cwt., c.i.f. Jamaica, spot, No. 3, unchanged at 220s. per cwt.

GRAINS OF PARADISE.—In small but fairly regular demand. Dealers' price for spot would be about 1s. 10d. per lb.

GUM ACACIA.—Spot value of unrestricted Kordofan cleaned sorts shows an advance to about 235s. per cwt.; shipment, nominal at 70s. per cwt., c.i.f.

HONEY.—Official first-hand wholesale and retail prices for imported and maximum retail prices for home-produced are unchanged. Details of prices were given in the C. & D., August 30, 1941, p. 119.

IPECACUANHA.—Inquiry has been fair, and prices are without quotable change. Matto Grosso, spot, about 18s. per lb. Shipment,

new-crop, January–February, about 15s. 6d. per lb., c.i.f., with some holders asking more. Minas, spot, about 12s. 6d. per lb., according to seller; shipment, about 10s. 3d., c.i.f. Current prices for EXT. IPECAC. LIQ., in winchester quarts, are as follows: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

JABORANDI.—Dealer's price for spot supplies would be in the region of 55s. per lb.

MENTHOL.—While recent fair arrivals have prevented any immediate shortage, further replacements are unlikely to be received for some time. Demand has remained active during the week, with Chinese offered on spot at between 69s. and 71s. 6d. per lb., and Japanese, in small compass, at around 72s. 6d.

MERCURY.—Prices for quantities of over 7 lb. are subject to the Control of Mercury (No. 6) Order (C. & D., May 10, p. 295). Quantities of 7 lb. and under were decontrolled by the Control of Mercury (No. 7) Order (C. & D., October 18, p. 86). Official prices range between £48 and £48 15s. per bottle of 76 lb., ex warehouse, London.

ORANGE PEEL.—Dealers are offering small supplies of bitter quarters at approximately 2s. 9d. per lb.

PEPPERS.—The maximum spot price in bond of unpicked whole black Lampong is 5d. per lb., and of whole white Muntok, 8d. per lb.

PIMENTO.—Steady conditions obtain, with sellers on spot at 2s. per lb.; shipment, January–February, nominal at 150s. per cwt., c.i.f.

QUASSIA CHIPS.—Small spot stocks are being held by dealers for about 7½d. per lb.

QUILLAIA BARK.—Crushed, in small supply, would be worth approximately 140s. per cwt. on spot.

RHUBARB.—Fair interest has been shown. Sound rough-round would be worth about 7s. to 7s. 9d. per lb. on spot, and slightly-wormy, about 6s. 9d. per lb.

RUBBER.—Unquoted until further notice.

SARSAPARILLA.—Dealers are quoting native reddish on spot at about 2s. 9d. per lb.

SEEDS.—ANISE.—Spot, nominal at 170s., duty paid. CANARY.—No spot stocks available. CARAWAY.—Dutch, spot, nominal at 350s., duty paid. CORIANDER.—Indian, spot, 175s., duty free; English, 195s., duty free. CUMIN.—Indian, wormy, quoted on spot at 135s., and sound at 150s., duty free; Malta, 155s., duty free; no Morocco. DILL.—No stocks available on spot. FENNEL.—Indian, spot, 90s., duty free. FENUGREEK.—Indian, spot, quoted at 100s., duty free. MUSTARD.—English, spot, 115s. to 130s., according to quality.

SENEGA.—No more spot supplies appear to be available at last week's price of 7s. per lb. A price of 7s. 3d. per lb. would probably find a few bales.

SENNA.—Values unchanged on the week. Hand-picked Alexandrian pods, spot, about 4s. 6d. to 5s. 6d. per lb.; hand-picked Tinnevely pods, about 1s. 2d. to 1s. 5d. per lb. for selected, and about 7½d. per lb. for f.a.q.

SHELLAC.—Prices have remained steady at last week's figures. Spot, standard TN orange, 185s. per cwt., sellers; shipment, nominal at 174s. per cwt., c.i.f. Pure button, spot, unquoted; fine orange, 205s. to 275s. quoted.

SLIPPERY ELM BARK.—Steady, with business quiet and stocks low. Wired bundles would be worth about 2s. 6d. per lb. on spot, and grinding quality, about 1s. 3d. per lb.

SOYA BEAN FLOUR.—The Soya Flour (Control and Maximum Prices) Order, 1941 (C. & D., December 20, p. 377), has been amended in regard to the payment of costs incurred in the transport of soya flour, ex mill or wharf, as the case may be. In the original Order the seller could make an addition to the maximum price representing the reasonable and actual cost paid or incurred by him in respect of transport. The amending Order, which came into force on January 26, enables the seller to charge an average or flat rate instead of this actual cost, provided the average or flat rate is approved by the Ministry of Agriculture or the Ministry of Agriculture for Northern Ireland.

SQUILL.—In good supply at unchanged prices. Indian, spot, about 77s. 6d. per cwt.; Portuguese, f.a.q., about the same figure; good-quality Portuguese, about 82s. 6d. to 85s. per cwt.

STORAX.—Most of the stocks recently available appear to have gone into consumption, and prices show an advance to about 9s. to 9s. 3d. per lb.

STRAMONIUM LEAVES.—Indian leaves are quoted on the spot at around 95s. to 100s. per cwt.

TONKA BEANS.—Fair frosted Para beans would be worth about 5s. per lb. on spot.

TRAGACANTH.—Prices continue to advance, and all the medium grades are at higher figures this week: No. 1, white, £155; No. 2, white, £140; No. 3, white, £115; pale leaf, £105; amber leaf, £80; red leaf, from £40; woody and hoggy, from £25, ex store.

TURMERIC.—Madras finger, sound, quoted on spot at 80s., and wormy at 77s. 6d.

VALERIAN ROOT.—Demand is small but fairly steady. Indian root, on spot, would be worth approximately 120s. to 130s. per cwt., according to quantity.

Valerian root is understood to be not at present produced in exportable quantities in Chile, but several sources will probably have supplies available for export next year. The drug is now under cultivation by a large producer of medicinal plants and herbs as well as by colonists.

WAXES.—Quiet, with one variety showing a small advance on last week's figures. **BEES'.**—Spot; 280s. nominal; in bond, 250s.; Dar-es-Salaam, nominal at 285s. Japanese, first three brands, spot, duty paid, 320s., nominal. **CARNAUBA.**—Spot, fatty grey, 500s.; chalky grey, 480s.; Primeira, 570s.

Essential and Expressed Oils

ANISE (STAR).—Demand has been fully maintained, and higher prices are being asked in some quarters. Some business is reported done in odd drums at 52s. per lb., and a few cases of tins are offered at 53s. 6d. per lb.

BAY.—Spot prices are being fully maintained at recent levels, i.e. about 10s. to 12s. per lb.

CAMPHOR.—It may be possible to find a few odd drums on spot at approximately 500s., duty paid.

CANANGA.—Firm and in poor supply at approximately 60s. per lb.

CASSIA.—No supplies are available.

CEDARWOOD.—Forward quotations are unobtainable. Spot remains nominal at about 6s. 6d. per lb.

CITRONELLA.—Demand has been maintained throughout the week, but prices show no advance. Java, spot, about 19s. per lb.; Ceylon, spot, between 12s. 6d. and 14s. per lb.

CLOVE.—Makers' price for English-distilled is maintained at 18s. per lb.

EUCALYPTUS.—Spot values are at the levels recorded last week of about 5s. to 5s. 6d. per lb. for 70 to 75 per cent. oil.

LAVENDER.—Steady and unchanged at approximately 85s. per lb. for good-quality spot oil.

LEMONGRASS.—Firm and unchanged at about 19s. to 20s. per lb.

LIME.—The spot value of genuine West Indian, if available, would be in the region of 55s. per lb.

NUTMEG.—Reported dearer at origin. Spot price would now be in the region 32s. 6d. to 35s. per lb.

PALMAROSA.—Spot continues to be quoted at around 36s. per lb.; shipment, about 28s. per lb., c.i.f.

PATCHOULI.—About 60s. per lb. would represent the present spot value of any good-quality oil.

PEPPERMINT.—Good inquiry has been received during the week. Practically all Chinese offered on spot is reported cleared at 75s. per lb., except for a few odd cases for which 76s. 6d. is wanted. Any available Japanese would be worth 77s. 6d. per lb.

PETITGRAIN.—Spot values are unchanged at about 22s. to 25s. per lb.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, quoted for delivery at 30s. per lb.

SASSAFRAS.—Dealers' spot price is without change at approximately 17s. 6d. per lb.

THYME.—About 16s. per lb. would be the present spot value of medium-quality oil, but higher phenol-containing oils would be dearer.

WINTERGREEN (GENUINE).—Dealers' prices remain at between 12s. 6d. and 14s. per lb.

WORMSEED.—The spot price of any available supplies would be in the region of 30s. per lb.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Vironita—Makers' Statement

SIR,—The recent case for misdescription against a Vironita label referring to the iron and phosphorus content (*C. & D.*, January 24, p. 100) applied only to certain consignments. Due to lack of sufficient retaining agents, brought about by present circumstances, part of the iron and phosphorus was lost as a precipitate. Notwithstanding this loss, the product is of sound medicinal value, depending, as it does, not on these two constituents, but on a combination of nineteen ingredients of proven therapeutic value. The affected stocks have now been replaced, and the manufacturers warrant all other stock to comply with the Food and Drugs and all statutory regulations.

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Organisation of Pharmaceutical Employees

SIR,—At a recent meeting of this branch (Glasgow and West of Scotland) of the National Amalgamated Union of Shop Assistants, Warehousemen and Clerks, representing the West of Scotland Section of the Association of Pharmaceutical Employees, the Report of the Committee of Inquiry, Part II, was examined. While the members were favourably impressed by the conscientious manner in which the Committee had completed its task, they were unanimous in their condemnation of that part of the report dealing with employee organisation. Consequently I have been directed to write to you stating our views on this all-important aspect of the report. Some years ago the A.P.E. was born into the pharmaceutical world as an infant of the trade union movement of Britain. Thus its childhood and career were assured. The Shop Assistants' Union provided its nourishment by placing at its disposal the machinery and experience of a live association. From such a beginning the child has developed through adolescence and now shows signs of a vigorous manhood. Despite all this, the Committee is anxious to have a futile repetition of the pangs of childbirth and suggests that the foster-parent should be the Pharmaceutical Society. It is only necessary to ask why

the Society did not sponsor the movement years ago; and, when the prevailing National Health Insurance terms are considered, some doubt is cast on the ability of the Society to organise pharmacy so as to present a unified demand. For once in its life let the Society surprise its members by a liberal gesture and give its official blessing to the only successful attempt which has ever been made to organise pharmaceutical employees. This will make things easier for us as our desire is to co-operate in the raising of the status of the pharmacist. It would also prove to the members of the A.P.E. that the Society is really anxious to help the cause of the employee.

Yours faithfully,
Glasgow. A. N. ANDERSON, M.P.S.,
Branch Secretary,
Association of Pharmaceutical
Employees.

SIR,—Mr. Cargill (*C. & D.*, January 24, p. 127) is, I fear, inclined to take a sectional view of pharmacy rather than of pharmacists interests as a whole, and most, if not all, the letters emanating from members of his organisation that have appeared in the pharmaceutical Press have, in my opinion, savoured too much of propaganda. The best statement I have seen on the subject of employee organisation is that in the *C. & D.*, December 2, p. 366. What we employees want to ascertain is the advantages to be gained by being associated with the trade union movement in preference to having an organisation within pharmacy corresponding to and *vis-à-vis* the National Pharmaceutical Union. Mr. Cargill states "No organisation would be complete which did not include all employees of pharmacy." With apologies to Professor Joad, it depends on what is meant by "all employees of pharmacy." Perhaps Mr. Cargill will tell us what is the numerical strength of the A.P.E. and if the membership (figures, not percentages, please) includes pharmacists in general hospitals, manufacturing houses, etc. Is it correct to say that membership of the A.P.E. consists almost entirely of a proportion only of the pharmacists employed by the multiple concerns?

Yours faithfully,
INQUISITOR.

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Water comparable
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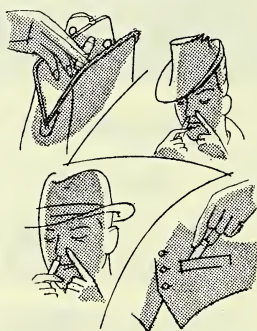
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KARSODRINE INHALER instantly relieves nasal congestion and its concomitant headache and eye ache.

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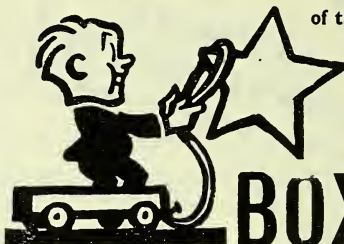
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Keep your Public reminded that you sell Box's Pills. Give them a good show. Display stands free.

has made them a star to which the retail chemist is glad to hitch his wagon. They have always sold well, and in these difficult days when normal diet is disturbed and digestion upset they sell better than ever.

**P.A.T.A. RETAIL PRICES: 1/3, 3/-, 4/10½
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**THE POTENT BRAIN & NERVE TONIC
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1/3 size, 7/6 doz.

2/3 .. 13/6 ..
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No longer a copy of BRONCHOVYDRIN, but an improvement.

We are gratified and amazed at the astonishing results being obtained by the use of BROVON.

Once tried, repeat orders are automatic.

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The Brovon Pocket Spray has arrived safely. I am highly pleased with it and find it a great boon.

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Despite difficult War conditions these ideal Fruit Cubes still contain genuine Smyrna Figs, West Indian Tamarinds, Senna, Emulsified Liquid Paraffin, etc.

Delightful to take and always effective.

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I happened to see a showcard in a Chemist's window and fortunately went in and bought a carton, Since then I take them regularly every day.

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Ask us to send you 12 oz. sample bottle FREE

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12 Closures, 12 Closures, 12
Rings, 6 Clips, Rings, 12 Clips,
labels and in- labels and in-
structions. The structions.
The Clips are used
again and again.

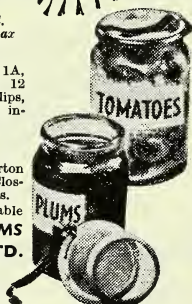
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TIRED AND LISTLESS APPEARANCE
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YEAST**

IN TABLET FORM

60 Tabs. 1s. 6d.

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Retailers' Discount 33½%

Wholesale " 16½%

All Orders Carriage Paid

This preparation will improve the condition of the Blood.

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Retail Price (Protected)	Net Wholesale Price
Virus for Rats and Mice, single tube, 2/-	15/- per doz.
3 tubes, 5/-	

Virus for Mice only	single tube, 1/6	9/-
	3 tubes, 3/-	

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danzysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
" 4/6 "	3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33 1/3% Cash with Order.

Retail	Monthly A/c	Cash with Order
4 gall. tins	10/-	7/6
" "	18/-	13/6
" "	80/-	60/-
		6/8
		12/-
		53/4

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For destroying Blackbeetles, Cockroaches, Crickets, etc.	
Retail Prices (Protected)	Wholesale Prices
In cartons 9d. each	6/9 per doz
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" 3/- "	27/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS

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"Adaptocaps"

SELF-SEALING CAPSULES



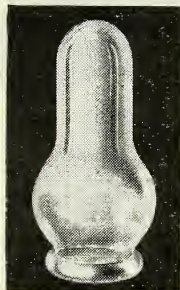
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BRITISH MADE



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THE BEST

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*as soon
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More and more man-sized jobs are being done by women. These strenuous days are convincing thousands of the practical advantages of Tampax. That's why so many of our customers have been getting more enquiries than ever before. But war conditions also mean restricted supplies. That's why there is not always sufficient Tampax to meet the demand. Be assured please that we are sending you all we can as soon as we can . . . that we're dealing with orders in strict rotation . . . and that every new sale building business for days when supplies will no longer be scarce.

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YES . . .

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(Thyroid—Pituitary W.G.—Gonadic)

TABLETS

A pluriglandular preparation for the stimulation of the Endocrine Glands. Suitably prescribed in cases where the symptoms indicate a disturbance of the normal functioning of the glands.

Corrects menstrual irregularities and relieves distress during the menopause.

Bottles of 25, 100, 250, 500 and 1,000 Tablets.

Glandular Therapy Booklet and "OXOID"
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The CHEMIST AND DRUGGIST SUPPLEMENT

JANUARY 31
1942

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28 ESSEX STREET, LONDON, W.C.2

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All classified advertisements must be prepaid—those not accompanied by remittance will be held over pending payment. Instructions will be accepted up to FIRST POST THURSDAYS if sent to BATH, but mid-day WEDNESDAY is latest time for LONDON.

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Minimum 1 gross. Constant supplies.

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Nail Varnish in approx. $\frac{3}{4}$ oz. bottles, 14s. doz. inc. of tax, in following shades:—Natural, Clear, Orchid, Crimson, Flame, Old Rose, Blush Rose, Sunbronze.

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Can be supplied in bulk, quotations on request (S.A.E.).
HAIR NETS, Substitute human hair, cap shape. Fine Elastic almost invisible in wear. All shades enveloped 36s. gross inc. tax. Min. 6 doz. *Cash with Orders.* MARLENE PRODUCTS, (Dept. C), 18 Waltham Avenue, Kingsbury, London, N.W.9

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- 56 lbs. Acetanilide
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- 1 cwt. Hexamine Crystals
- 1 cwt. Sodium Bromide
- 1 cwt. Sodium Sulphate
- 10 cwt. Zinc Oxide
- 1 cwt. Sodium Citrate, B.P.
- 5 cwt. Potassium Citrate, B.P.
- 2 cwt. Potassium Iodide Crystals, B.P.
- 1 cwt. Benzoic Acid, B.P.

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BRISTOL. Qualified Manager to live over shop, for duration. Required March. No N.H.I. Elliott, Victoria Square, Clifton, Bristol, 8.

LEICESTER. Wanted Qualified Assistant (exempt) for Dispensing—heavy N.H.I. Apply, giving full particulars as to experience, age, salary, reference, and when at liberty. CDB/923, London Office of this Paper.

ANDERSON & VIRGO, Worcester, have a vacancy for an Assistant, good Dispensing experience high-class pharmacy. Permanency to suitable man. Over military age or exempt. Apply with particulars, salary required, etc.

CAPABLE Manager required for busy country Pharmacy for duration of War. Good salary paid, with accommodation. Integrity and ability the only considerations. Also Unqualified Dispenser. Please apply with details direct to Messrs. Fred Christopherson, Ltd., Market Place, Swaffham, Norfolk.

CHEMIST. Harrods Ltd. require for Dispensary Qualified Chemist, male or female, for Dispensing only. Apply Factory Manager, 44 Hans Crescent, London, S.W.1.

CITY HOSPITAL, NOTTINGHAM

FEMALE DISPENSER

Applications are invited for the appointment of Female Dispenser to work under the direction of the Chief Pharmacist.

Candidates must possess the certificate of the Apothecaries' Hall, and previous clerical experience will be an advantage. Salary £156 per annum, plus War Bonus.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination and to reside within the boundaries of the City of Nottingham. Canvassing in any form will disqualify.

Application form can be obtained from the undersigned, to whom the completed form should be returned not later than February 10.

The Guildhall,
Nottingham.
January 22, 1942.

J. E. RICHARDS,
Town Clerk.

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H. J. JOHNSON,
Gen. Supt. & Secretary.

LADY Dispenser Book-keeper required. Experienced with Doctor's Surgery. Full particulars to Dr. Ireland, Shrewsbury.

LADY Assistant Pharmacist, qualified, age 21-30. State salary required. Apply to the Pharmacist, Bristol Royal Infirmary, Maudlin Street, Bristol.

MANAGERS. Vacancies will shortly exist for qualified Chemists as Managers or Branch Pharmacies at Dorking, Dartford, Watford, Sudbury, Camborne, Falmouth, Isle of Wight and Portsmouth. Good salaries and commission. Apply Retail Drug Department, Messrs. Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.E.1.

QUALIFIED Assistant (Lady or Gentleman, exempt military service) required in March, for good-class Pharmacy. Apply stating full particulars and salary required to William J. Gregory, St. John's Terrace, Weymouth, Dorset.

QUALIFIED or unqualified Lady or Gentleman required for good-class retail in pleasant country town. Please give particulars of experience and salary required. Coleys, The Chemists, Stroud, Glos.

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WANTED, Unqualified Male Assistant. Apply Allen & Lloyd, Ltd., Aldershot.

WANTED, Qualified Male Dispenser. Apply Allen & Lloyd, Ltd., Aldershot.

WANTED immediately qualified Dispenser, either sex, for country pharmacy. Good wages. Apply, giving full particulars, to Presteign Pharmacy, Ltd., 2 High Street, Presteign, Rads.

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Applications are invited for the position of **Publicity Manager** with a leading firm of **Manufacturing Chemists** handling ethical medical products. Applicants must have a knowledge of **Pharmaceutical Trade** and be experienced in **Publicity work**. Write stating age, experience and salary required to 396/543, London Office of this Paper.

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PROMINENT Manufacturing Chemist producing essential drugs as ampoules, tablets, etc., require the services of **Women Pharmacists or Dispensers** in factory near London. Progressive posts can be offered to satisfactory applicants. Write Box 983, c/o 8 Serle Street, W.C.2.

REPRESENTATIVES required to sell advertised pharmaceutical proprietary. Territories vacant South-West and North-West England, Lancashire and Home Counties. 397/547, London Office of this Paper.

SAVORY & MOORE, LTD., Manufacturing Chemists, Standard Works, Lawrence Road, Tottenham, N.15, require senior Order and Pricing Clerk for Wholesale. Apply by letter giving full details and salary required.

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WHOLESALE**EXPERIENCED WORKS MANAGER**

(Sc., Ph.C., Scot.) at present engaged by important firm of Mfg. & Wholesale Chemists, desires change, and could be glad to contact reputable firm—preferably Government Contractors. Thorough commercial training, including accountancy, banking and general office routine; import, export, and buying. Comprehensive knowledge drug trade, and capable of exploiting processes. Preference expressed for executive post on commercial side offering scope for advancement. DB/919, London Office of this Paper.

ADY Representative requires post, seven years with present firm; staff curtailment due to war conditions. Connexions with Chemists, Fancy and Drapers' Shops. North-Eastern Counties; own car. Price 397/546, London Office of this Paper.

PERMANENT responsible position with Wholesale firm, preferably near Surrey or S.W. London, required by energetic and capable young business man at present Managing Director of Retail Company. Qualified Chemist, used to handling staff, with first-class experience in every branch of Toilets and Photography. Excellent medical knowledge and advertising ability. Not liable for Military Service at any time. Advertiser, 6 Christchurch Road, Surbiton, Surrey.

REPRESENTATIVE with sound personal connexion Chemists, Ladies' Hairdressers and others, covering West and South-West England, requires good additional line on commission basis. 391 Highland Road, Parkstone, Dorset.

REPRESENTATIVE, over military age, sixteen years' connexion in Scotland, Wholesale, Retail Chemists and Stores, owing to limitation of Supplies, desires two or three good-class lines for duration. DB/918, London Office of this Paper.

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ACTUAL Consumers require large quantities 7½ oz. or 8 fluid ounce ungraded medicine bottles, clear or coloured, with screw necks. Send details, prices to A.C. 1001, c/o Dawson's, 129 Cannon Street, London, E.C.4.

REDARWOOD Oil wanted, 1-5 cwt.; good price paid. Write 396/512, London Office of this Paper.

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OILS or Fats and Glycerine, also Block Stearine wanted. Box 56, Pool's, Brettenham House, Lancaster Place, W.C.2.

DEARS' "Jif" Darts wanted for cash. 9s. per doz. offered for sets of darts only, without the accompanying shaving soap offer. Must be carriage paid. B. Parkes, 9 Caldmore Green, Walsall, Staffs.

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Please reply at once to CDB/912, London Office of this Paper. All replies will be treated in strict confidence.

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FOR Sale, Drug Stores, Shropshire. Nearest opposition nine miles. Rent £20 p.a. Turnover £1,000 p.a. Good investment for chemist. Reason of sale due for service. Particulars on request. CDB/922, London Office of this Paper.

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Advertisers in this Section should advise us immediately employment has been secured.

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ASSISTANT, Unqualified, 30, good education; recently discharged Army, no incapacitation. First-class practical experience Retail, town and provinces, also Laboratory and Hospital. Wholesale or works preferred. Drive car. E. Sussex or Kent preferably; highest credentials. CDB/921, London Office of this Paper.

ASSISTANT, unqualified; many years' all-round experience Counter, Dispensing, Photo, desires position; West or South-west England preferred. In own business last nine years. Over military age. CDB/906, London Office of this Paper.

WHOLESALE

CHEMIST and Tablet-maker, 30, exempt from military service, fully experienced in all kinds of Tablet Manufacture, Granulating, Machine-setting, etc., wants suitable position; Manchester preferred. CDB/905, London Office of this Paper.

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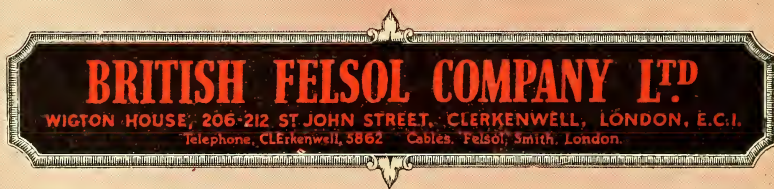
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